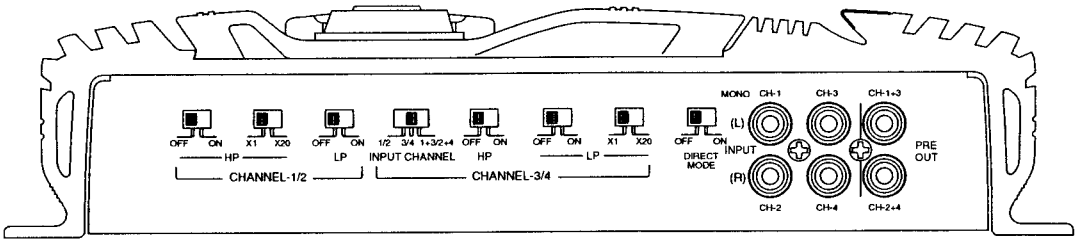
ALPINE

ALPI -00787

SERVICE MANUAL

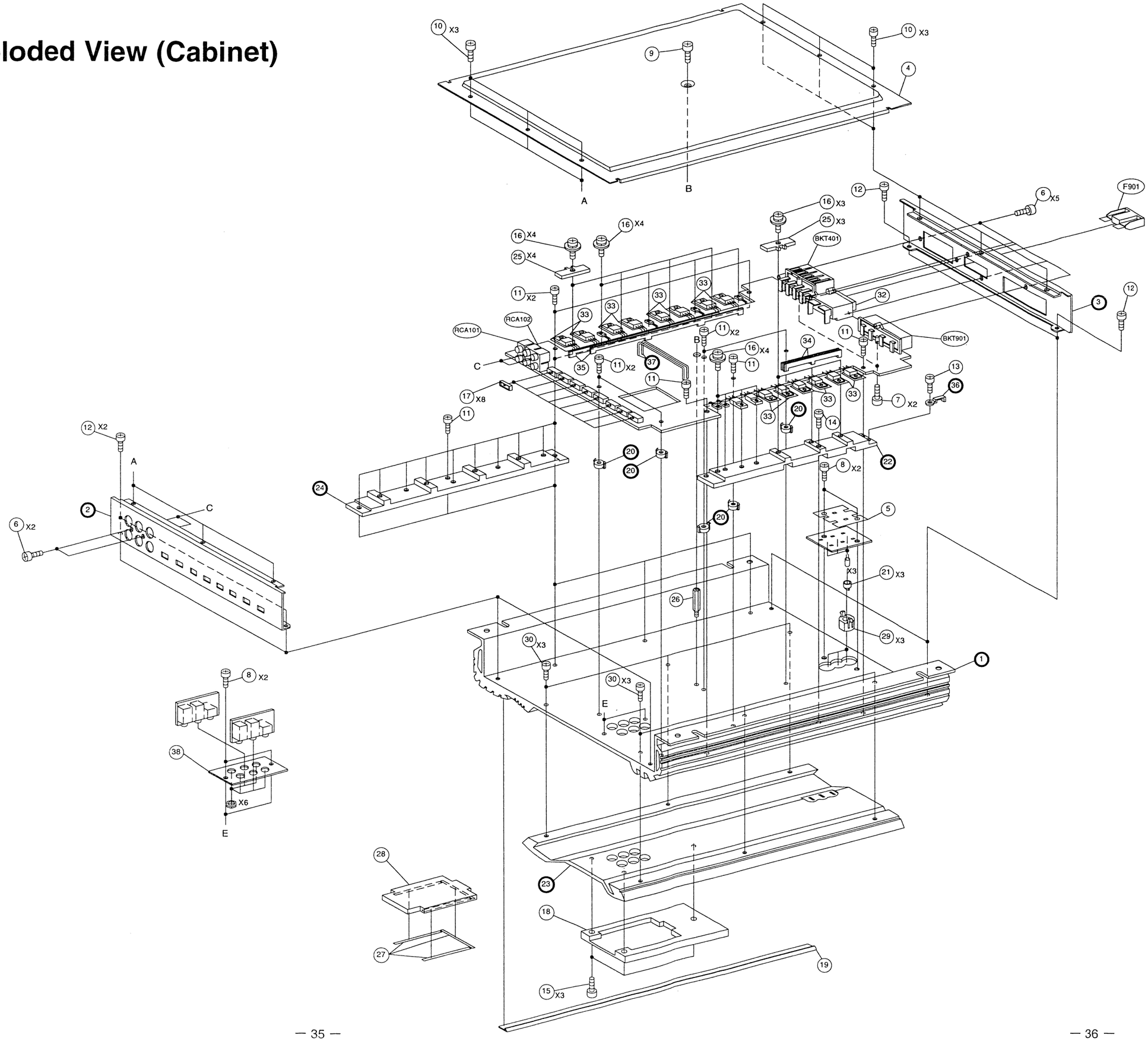
4/3/2 Channel Power Amplifier



サービス費用区分	B
技 術 資 料 No.	PM-85-O

MRV-F409

Exploded View (Cabinet)



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NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

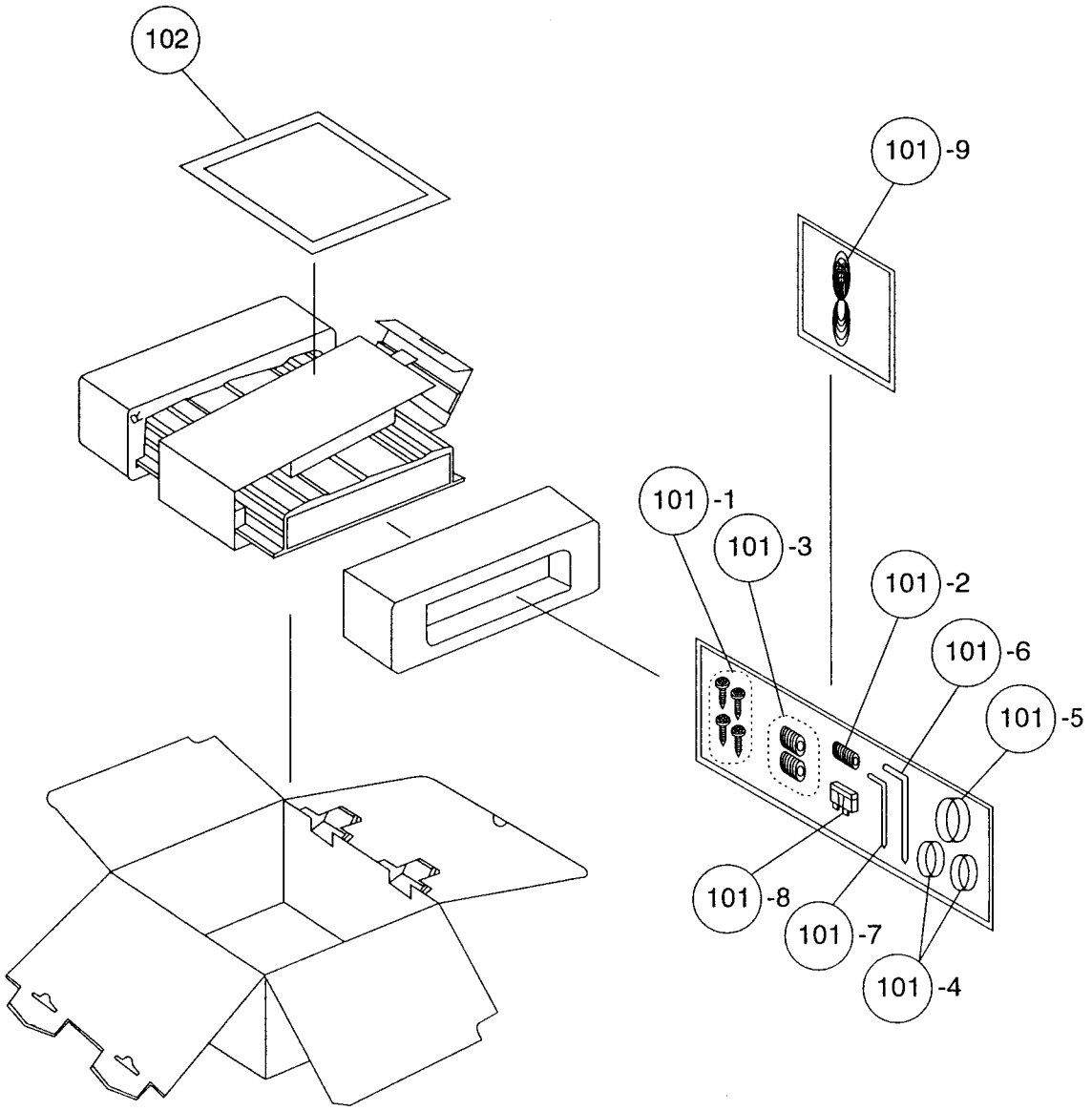
Packing Assembly Parts List

Symbol No.	Part No.	Description
101-1	03E11447S01	SCREW, TPG (M4X14)
101-2	03E29353S01	SCREW (M4X10)
101-3	03E29533S01	SCREW (M5X6)
101-4	——	HOUSING,RUBBER-C
101-5	——	HOUSING,RUBBER-E
101-6	47E22594S01	WRENCH (2.5X2.9MM)
101-7	01E28659S01	WRENCH (2X2.3MM)

Symbol No.	Part No.	Description
101-8	65E32075S01	FUSE, AUTO 40A (FOR BATTETYLINE)
101-9	01E29401S01	ASSY, REMOTE WIRE
○ 102	68P01434K35	OWNER'S MANUAL
△ 102-1	68P01434K33	OWNER'S MANUAL(GO)
△ 102-2	68P01434K34	OWNER'S MANUAL(I/G/S)
□ 102-3	68P01434K25	OWNER'S MANUAL

NOTE : ○: For North American Model Only, △: For General Foreign Model Only,
□ : For Japanese Model Only, Others : Common.

Packing Method View



MRV-F409

Specifications

T.H.D. <DIRECT MODE OFF/BATTERY NORMAL>
(Stereo, 20Hz/1kHz/20kHz) ..... 60W/ch, 4ohm-4channel, 14.4V, L.P.F.-80kHz : 0.2%
40W/ch, 4ohm-4channel, 12V, L.P.F.-80kHz : 0.2%
80W/ch, 2ohm-4channel, 14.4V, L.P.F.-80kHz : 0.8%
50W/ch, 2ohm-4channel, 12V, L.P.F.-80kHz : 0.8%
(BTL, RCA INPUT CH-1/CH-3, 20Hz/1kHz/20kHz) .... 160W/ch, 4ohm-2channel, 14.4V, L.P.F.-80kHz : 0.8%
100W/ch, 4ohm-2channel, 12V, L.P.F.-80kHz : 0.8%

Power Output <DIRECT MODE OFF/BATTERY NORMAL>
(Stereo, 20Hz/1kHz/20kHz) ..... 4ohm-4channel, 0.08% T.H.D., 14.4V, L.P.F.-80kHz : 50W
4ohm-4channel, 0.08% T.H.D., 12V, L.P.F.-80kHz : 30W
2ohm-4channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 60W
2ohm-4channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 35W
(BTL, RCA INPUT CH-1/CH-3, 20Hz/1kHz/20kHz) ..... 4ohm-2channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 130W
4ohm-2channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 70W
<DIRECT MODE OFF/BATTERY DIRECT>
(Stereo, 20Hz) ..... 4ohm-4channel, 0.2% T.H.D., 12V, L.P.F.-80kHz : 40W
(BTL, RCA INPUT CH-1/CH-3, 1kHz) ..... 4ohm-2channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 140W
4ohm-2channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 80W

S/N Ratio (Ref. Output 70W/4ohm, Input shorted, 14.4V) 90dB
Input Sensitivity (60W Output) ..... GAIN-VR (NORM) : RCA/DIRECT MODE : 1V±3dB
GAIN-VR (MAX) : 0.25V±3dB
GAIN-VR (MIN) : 5V±3dB
Input Impedance ..... RCA : 33kohm±10%
DIRECT MODE : 15kohm±10%
Frequency Response (0±1dB, Ref. 1kHz) ..... 20Hz~50kHz
Current Drain ..... No Signal : 2.5A
4ohm-4channel, 10% T.H.D. : 50A
4ohm-2channel, BTL, 10% T.H.D. : 80A
Residual Noise (Input Shorted, 4ohm-4channel, 12V) ..... VR Center, MIN. : 5mV
VR MAX. : 10mV
Channel Separation (Input Shorted, 1kHz, 60W-4channel) 55dB
Remote on Voltage (1W Output) ..... 6.5+1, -1.5V
Remote Current Drain ..... 1.3±0.5mA
Back Up Current Drain 1.2mA
Fuse Requirement ..... 40A (For Battery Line)
Power Source ..... DC14.4V (11~16V)
Dimensions (W×H×D) ..... 260×60×330mm
Weight 5.37kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

1. Power Supply Voltage Adjustment

電源電圧調整

(1) Connection

接続

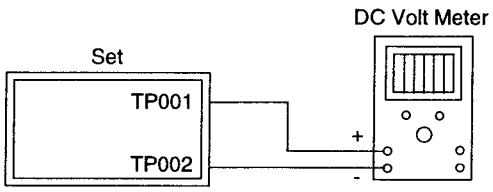


Figure 1
1図

BATTERY : DC14.4V
BATTERY DIRECT : OPEN
REMOTE : DC6.5+1, -1.5V
No Signal Input

(2) Adjustment Procedures

調整方法

Adjust VR701 so that Voltage between TP001 and TP002 reaches 63±1V.

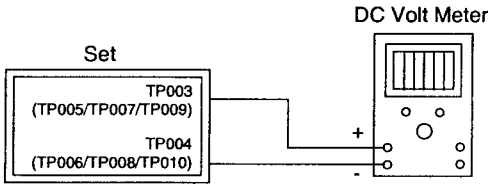
TP001とTP002との間の電圧が63±1Vになる様にVR701で調整する。

2. Idling Adjustment

アイドリング調整

(1) Connection

接続



BATTERY : DC14.4V
BATTERY DIRECT : OPEN
REMOTE : DC6.5+1, -1.5V
No Signal Input

Figure 2
2図

(2) Adjustment Procedures

調整方法

① Adjust VR401 so that Voltage between TP003 and TP004 reaches 1+0, -3mV.
TP003とTP004との間の電圧が1+0, -3mVになる様にVR401で調整する。

② Adjust VR402 so that Voltage between TP005 and TP006 reaches 1+0, -3mV.
TP005とTP006との間の電圧が1+0, -3mVになる様にVR402で調整する。

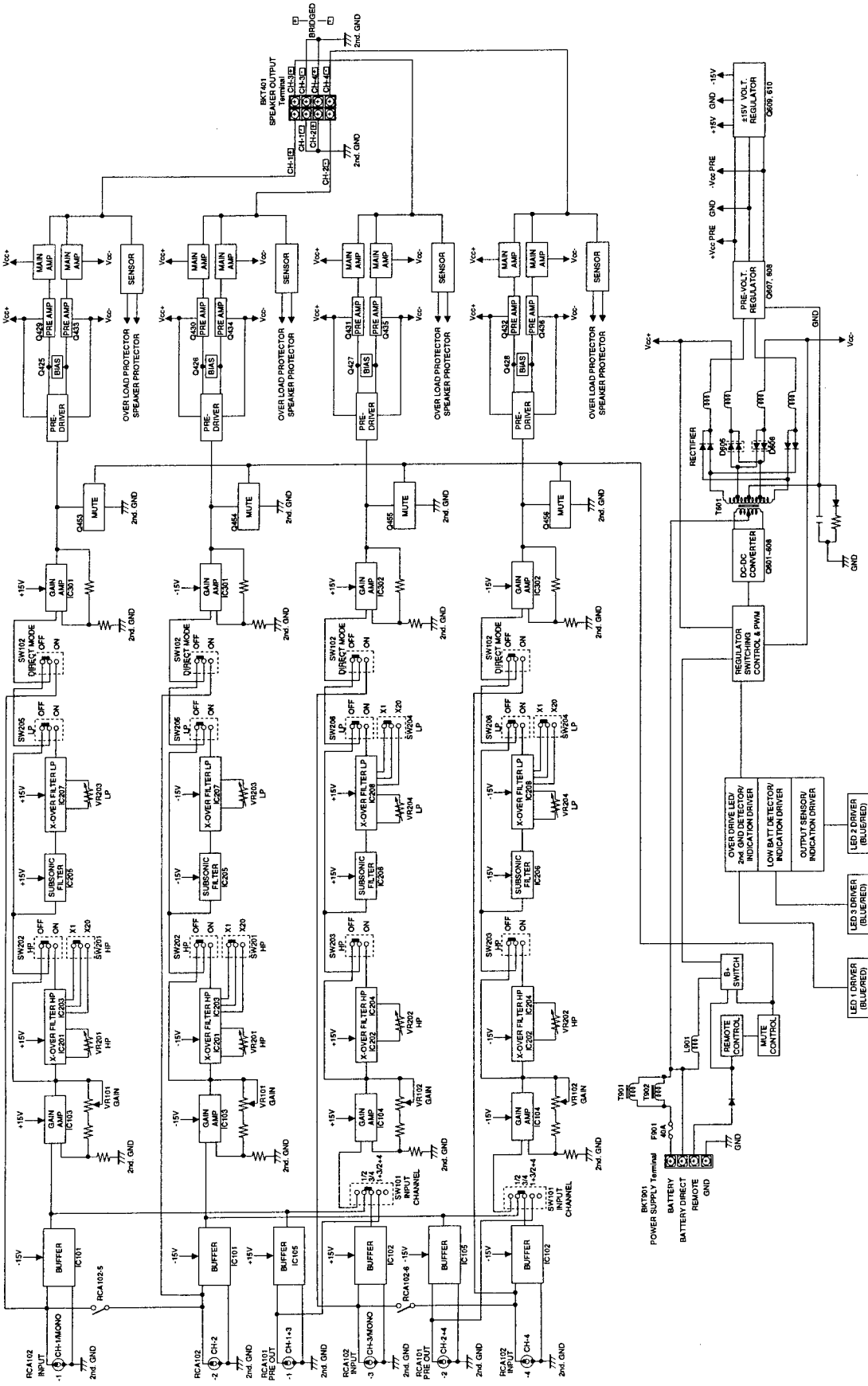
③ Adjust VR403 so that Voltage between TP007 and TP008 reaches 1+0, -3mV.
TP007とTP008との間の電圧が1+0, -3mVになる様にVR403で調整する。

④ Adjust VR404 so that Voltage between TP009 and TP010 reaches 1+0, -3mV.
TP009とTP010との間の電圧が1+0, -3mVになる様にVR404で調整する。

NOTE : For the Adjustment Parts and Test Points, refer to the Parts Layout on P.W. Boards and Wiring Diagram.

注記 : 調整部品及びテストポイントの詳細については、「Parts Layout on P.W. Boards and Wiring Diagram」を参照願います。

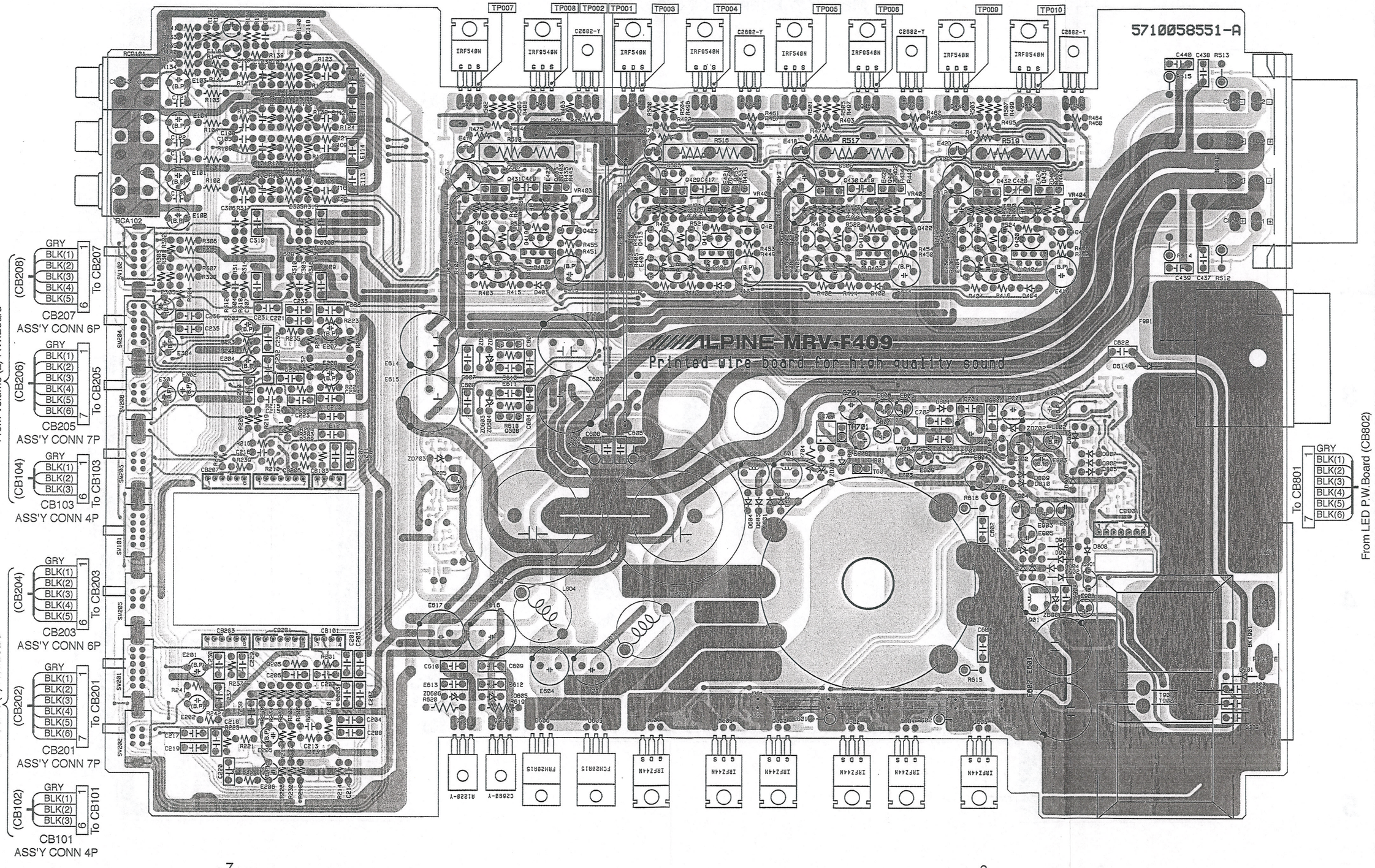
Block Diagram



Parts Layout on P.W.Boards and Wiring Diagram (1/3)

Dark Gray:Component Side Pattern
Gray:Foil Side Pattern
ダークグレー：部品取付側パターン
グレー：半田取付側パターン

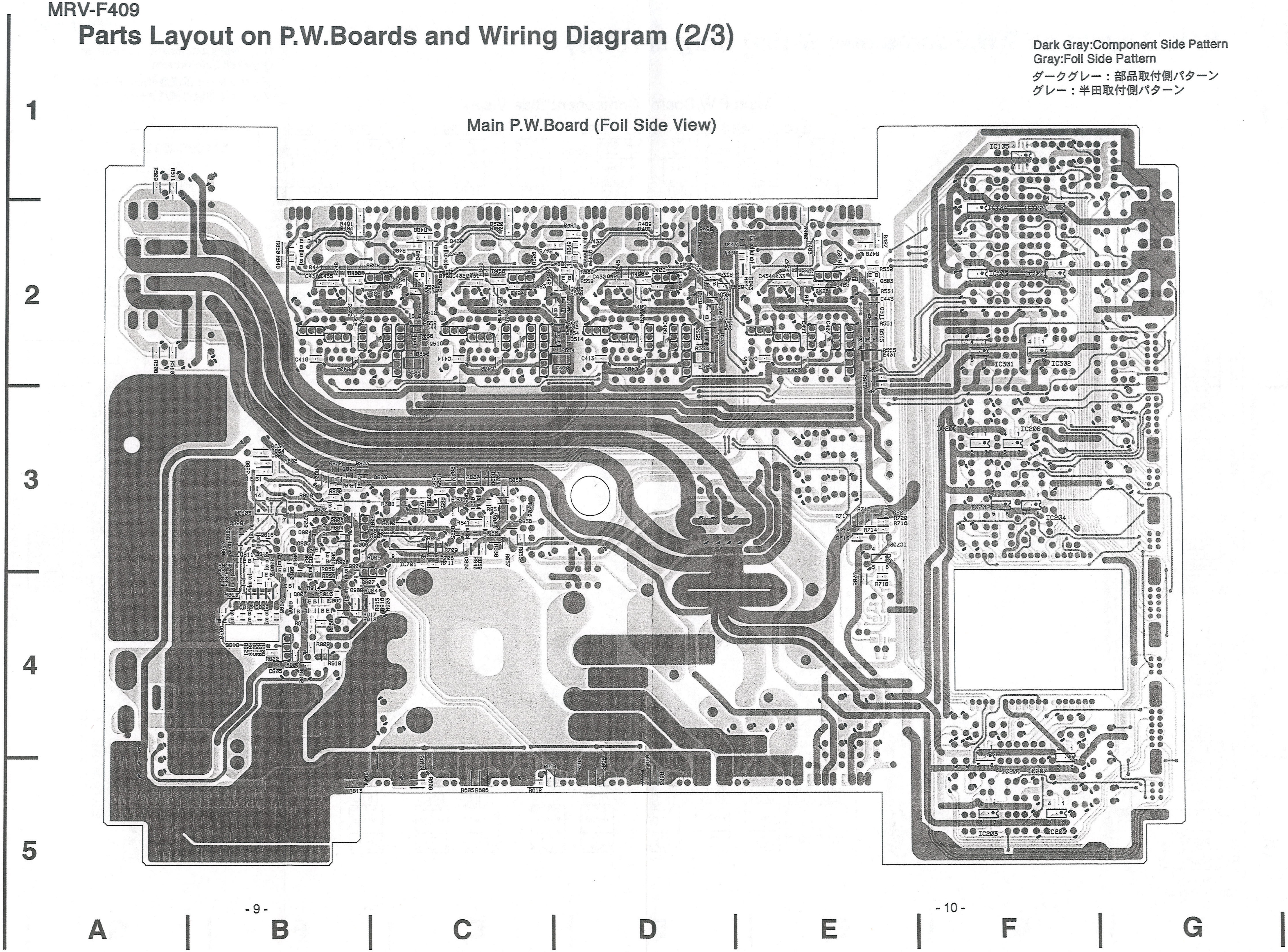
Main P.W.Board (Component Side View)



Parts Layout on P.W.Boards and Wiring Diagram (2/3)

Dark Gray:Component Side Pattern
Gray:Foil Side Pattern
ダークグレー：部品取付側パターン
グレー：半田取付側パターン

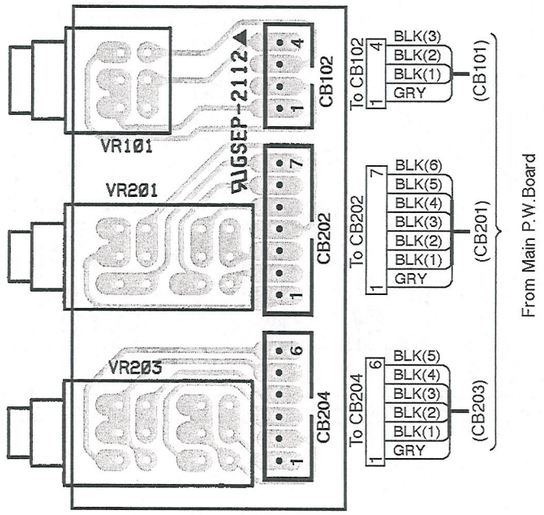
Main P.W.Board (Foil Side View)



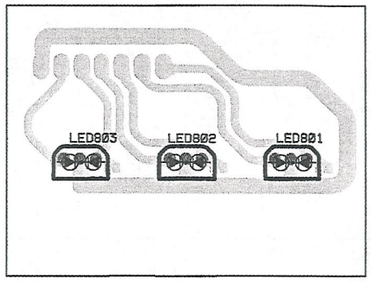
Parts Layout on P.W.Boards and Wiring Diagram (3/3)

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern
ダークグレー：部品取付側パターン
グレー：半田付側パターン

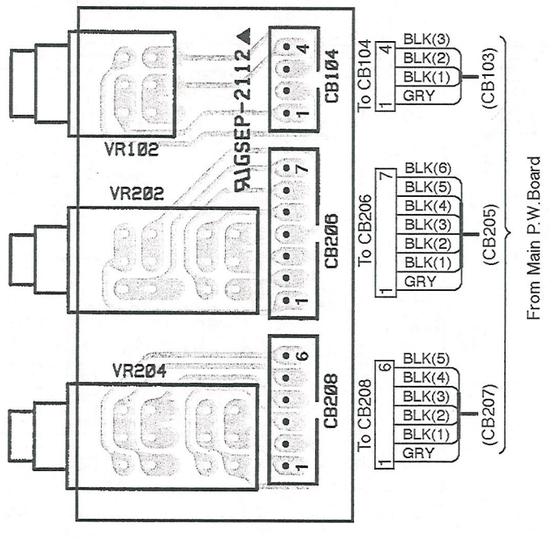
Volume(1) P.W.Board (Component Side View)



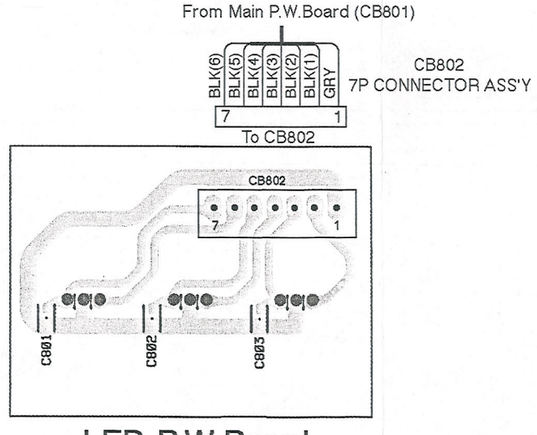
LED P.W.Board (Component Side View)



Volume(2) P.W.Board (Component Side View)



LED P.W.Board (Foil Side View)



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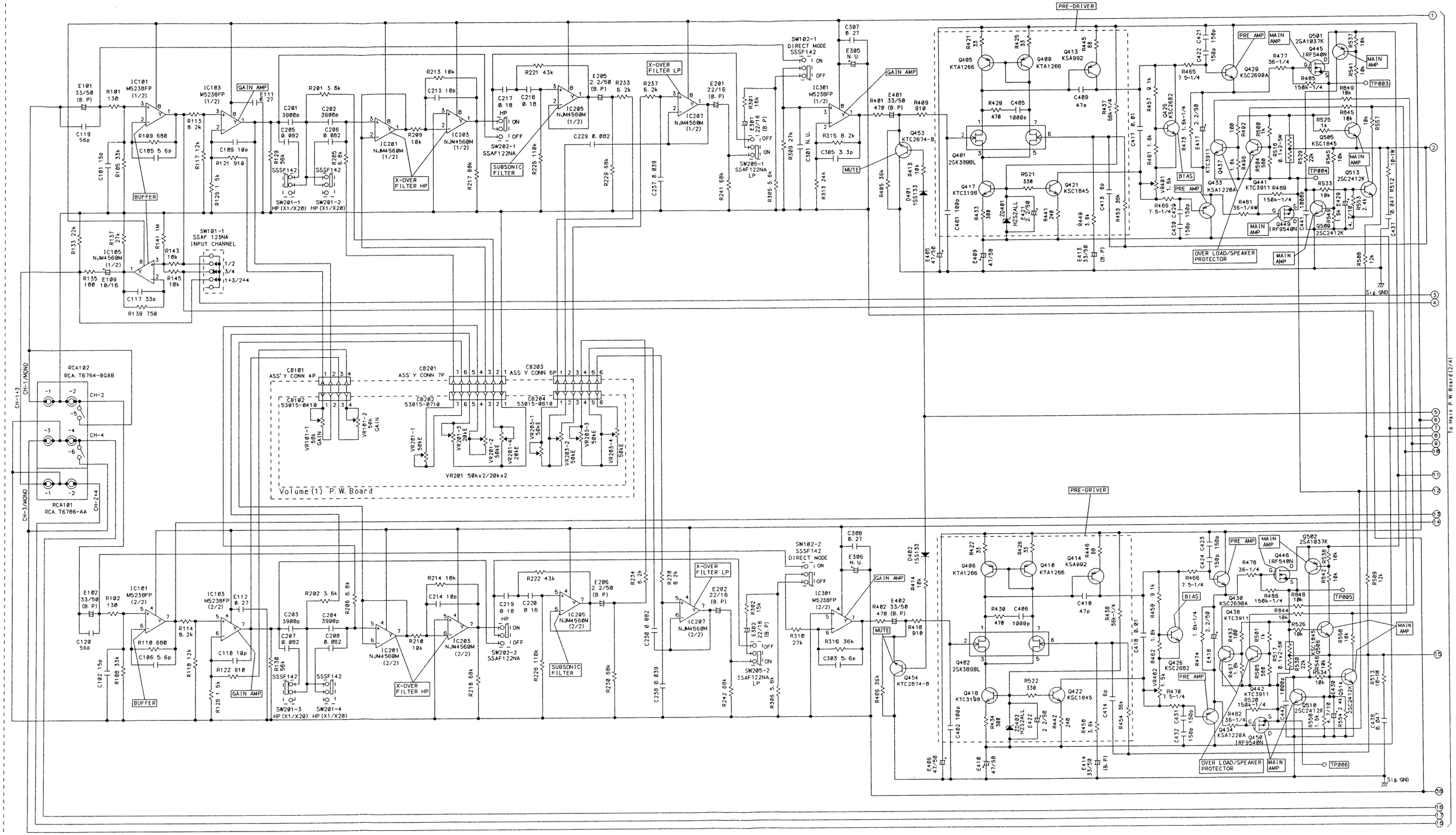
Schematic Diagram (1/4)

Main P.W.Board (1/4)



NOTE : N. U. is Not Used Parts.

Schematic Diagram (2/4)

Main P.W. Board (2/4)

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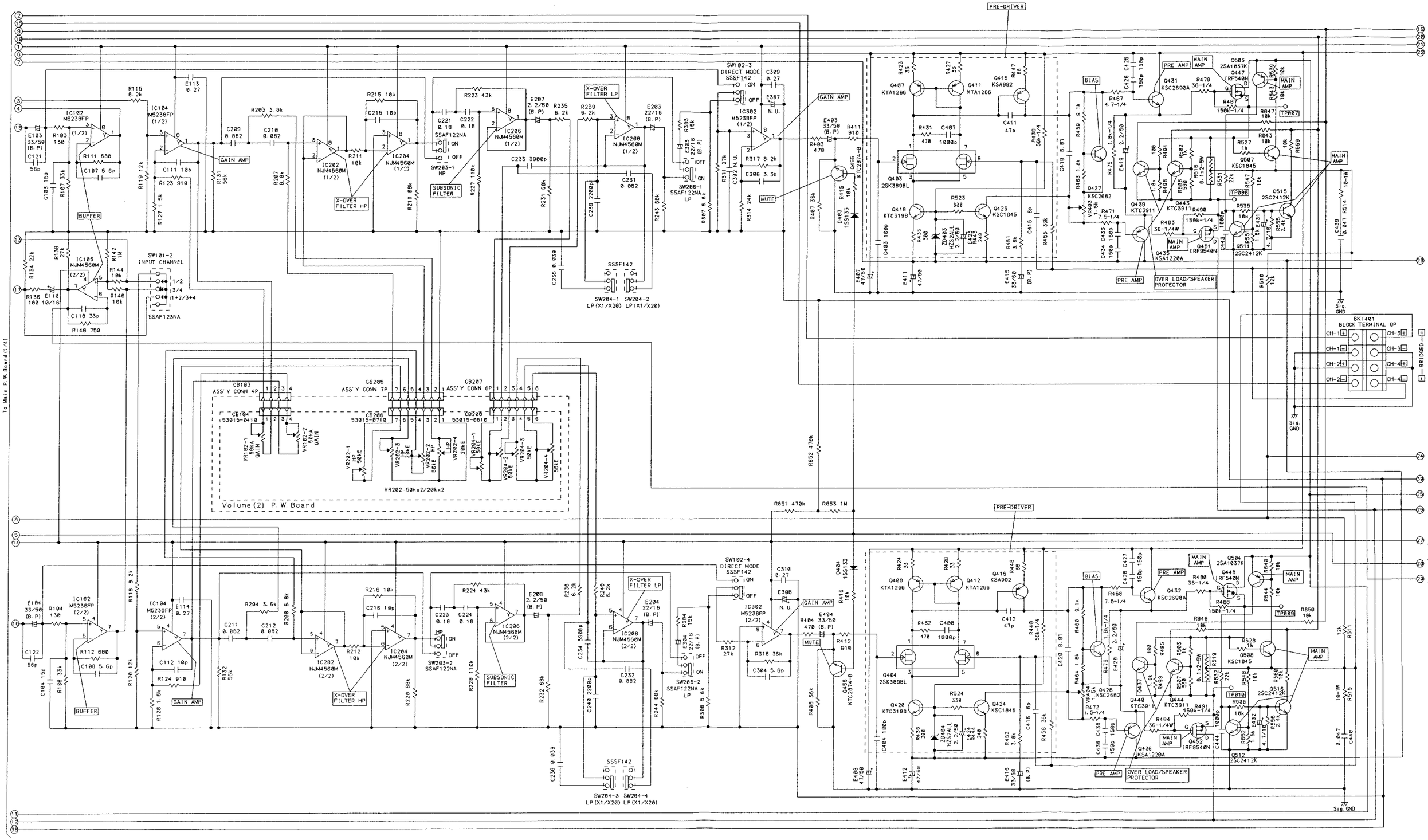

NOTE : N. U. is Not Used Parts.

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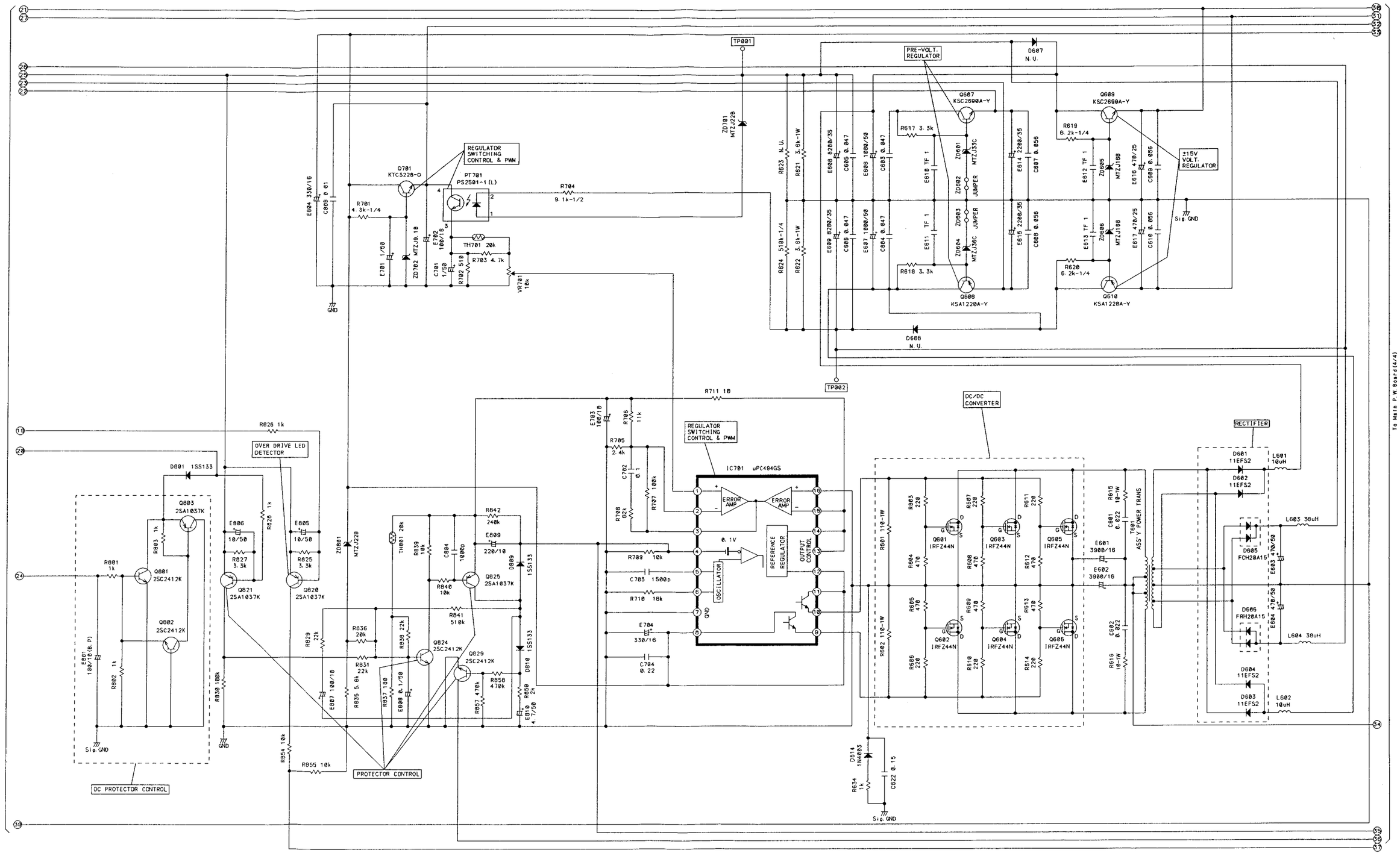
Schematic Diagram (3/4)

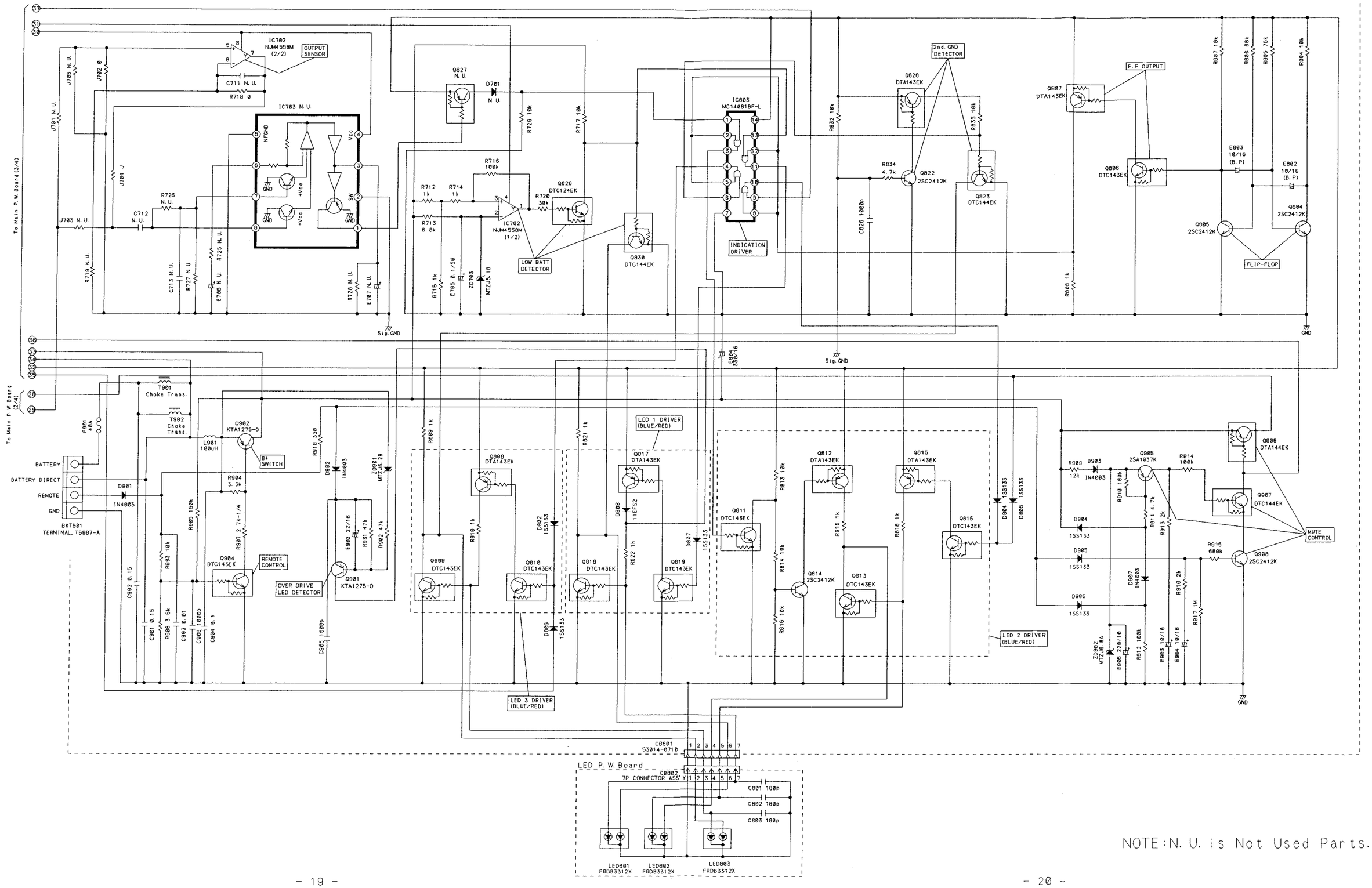
Main P.W.Board (3/4)



NOTE: N. U. is Not Used Parts.

Schematic Diagram (4/4)

Main P.W.Board (4/4)



NOTE : N. U. is Not Used Parts.

Terminal Voltage of IC/TR

IC101	
1	3m
2	3m
3	1m
4	-15.3
5	1m
6	2.6m
7	2.6m
8	15.2

IC102	
1	1.5m
2	1.5m
3	1m
4	-15.3
5	1m
6	2.7m
7	2.6m
8	15.2

IC103	
1	37m
2	5.4m
3	2m
4	-15.3
5	1.5m
6	4.7m
7	35m
8	15.2

IC104	
1	31m
2	4.6m
3	1m
4	-15.3
5	1.4m
6	3.9m
7	27m
8	15.2

IC105	
1	2.7m
2	2.2m
3	2.1m
4	-15.3
5	2.8m
6	3.1m
7	3.3m
8	15.2

IC201	
1	1m
2	1m
3	1.9m
4	-15.3
5	0.8m
6	1m
7	1m
8	15.2

IC202	
1	0.9m
2	0.9m
3	0.8m
4	-15.3
5	0.9m
6	1m
7	1m
8	15.2

IC203	
1	1.7m
2	1m
3	1m
4	-15.3
5	1.5m
6	1m
7	5.4m
8	15.2

IC204	
1	2.8m
2	1.4m
3	1.5m
4	-15.3
5	1.7m
6	0.8m
7	1.5m
8	15.2

IC205	
1	5m
2	5.1m
3	4.2m
4	-15.3
5	1m
6	1m
7	1m
8	15.2

IC206	
1	5m
2	5m
3	4.3m
4	-15.3
5	4m
6	4.5m
7	4.5m
8	15.2

IC207	
1	1.2m
2	1.2m
3	1.4m
4	-15.3
5	1.5m
6	1.7m
7	1.7m
8	15.2

IC208	
1	0.8m
2	0.4m
3	0.8m
4	-15.3
5	0.7m
6	1m
7	1.2m
8	15.2

IC301	
1	1.9m
2	5.3m
3	1.6m
4	-15.3
5	1.5m
6	2m
7	2m
8	15.2

IC302	
1	0.7m
2	0.8m
3	1.3m
4	-15.3
5	1.5m
6	0.6m
7	0.6m
8	15.2

IC702	
1	14.5
2	4.8
3	7.24
4	-15.3
5	0.7m
6	0.4m
7	0.2m
8	15.2

IC701			
1	0.95	9	0.66
2	0.95	10	0.66
3	3.77	11	14.2
4	212m	12	14.2
5	1.67	13	5
6	3.75	14	5
7	2m	15	5
8	14.2	16	2m

IC803			
1	7m	8	1.2m
2	1.1m	9	4.6m
3	1.8m	10	1.8m
4	1.1m	11	1.2m
5	1.2m	12	17m
6	2m	13	8.1
7	1.2m		

	G	D	S		G	D	S
Q445	3.5	31.4	4.2m	Q452	-3.5	-31.5	5.4m
Q446	3.4	31.4	4.4m	Q601	0.66	14.3	1.1m
Q447	3.5	31.4	4.3m	Q602	0.66	14.3	1.1m
Q448	3.5	31.4	4.2m	Q603	0.66	14.3	1.1m
Q449	-3.6	-31.5	5.5m	Q604	0.66	14.3	1.1m
Q450	-3.5	-31.5	5.4m	Q605	0.66	14.3	1.1m
Q451	-3.6	-31.5	5.3m	Q606	0.66	14.3	1.1m

	1	2	3	4	5	6	7
Q401	33.8	1.3m	0.38	NC	0.38	4.6m	33.8
Q402	33.8	1.5m	0.4	NC	0.4	5.4m	33.8
Q403	33.8	1.7m	0.38	NC	0.38	4.2m	33.8
Q404	33.8	1.4m	0.39	NC	0.39	4.3m	33.8

	E	C	B		E	C	B
Q405	33.6	33.4	33.3	Q423	-33.2	-4.4	-32.5
Q406	33.6	33.4	33.3	Q424	-33.2	-4.3	-32.5
Q407	33.6	33.4	33.3	Q425	-0.5	4.25	97m
Q408	33.6	33.4	33.3	Q426	-0.5	4.23	95m
Q409	34	33.8	33.3	Q427	-0.5	4.23	95m
Q410	34	33.8	33.3	Q428	-0.5	4.25	95m
Q411	34	33.8	33.3	Q429	3.7	34.5	4.22
Q412	34	33.8	33.3	Q430	3.8	34.5	4.25
Q413	34	4.22	33.4	Q431	3.7	34.5	4.23
Q414	34	4.25	33.4	Q432	3.7	34.5	4.25
Q415	34	4.23	33.4	Q433	-3.8	-34.2	-4.2
Q416	34	4.25	33.4	Q434	-3.7	-34.2	-4.3
Q417	-33.2	0.38	-32.5	Q435	-3.8	-34.2	-4.4
Q418	-33.2	0.4	-32.5	Q436	-3.7	-34.2	-4.3
Q419	-33.2	0.39	-32.5	Q437	5.4m	31.2	8.1m
Q420	-33.2	0.38	-32.5	Q438	5.3m	31.2	8.3m
Q421	-33.2	-4.2	-32.5	Q439	5.5m	31.2	8.2m
Q422	-33.2	-4.3	-32.5	Q440	5.4m	31.2	8.4m

	E	C	B		E	C	B
Q441	5.5m	31.2	8.2m	Q805	0	8.1	0
Q442	5.4m	31.2	8.4m	Q806	0	0	0
Q443	5.4m	31.2	8.3m	Q807	2m	8.1	0
Q444	5.3m	31.2	8.2m	Q808	8.1	2m	8.1
Q453	1.7m	2.2m	-0.5	Q809	2m	1.96	2m
Q454	1.7m	2.2m	-0.5	Q810	2m	8.1	73m
Q455	1.7m	2.2m	-0.5	Q811	2m	4.43	2m
Q456	1.7m	2.2m	-0.5	Q812	8.1	8.1	23m
Q501	31.4	2m	2m	Q813	2m	2m	2m
Q502	31.4	2m	2m	Q814	2m	23m	0.64
Q503	31.4	2m	2m	Q815	8.1	2m	8.1
Q504	31.4	2m	2m	Q816	2m	8.1	2m
Q505	10m	1.2	13m	Q817	8.1	16m	8.1
Q506	12m	1.2	15m	Q818	2m	1.96	2m
Q507	11m	1.2	17m	Q819	2m	2m	2m
Q508	10m	1.2	14m	Q820	31.4	2m	31.4
Q509	1.3m	1.3m	1.4m	Q821	31.4	2m	31.4
Q510	1.5m	1.3m	1.5m	Q822	1.4m	8.1	0.8m
Q511	1.4m	1.3m	1.3m	Q823	2m	1.96	5m
Q512	1.5m	1.3m	1.3m	Q824	1.4m	5	35m
Q513	10m	31.4	14m	Q825	5	55m	5
Q514	12m	31.4	15m	Q826	2m	19m	14.5
Q515	12m	31.4	17m	Q828	1.4m	1.4m	19m
Q516	11m	31.4	15m	Q829	2m	14.2	5m
Q607	33.2	33.7	32.6	Q830	2m	1.96	19m
Q608	-34	-34.5	-33.4	Q901	13.7	2.3m	13.7
Q609	15.2	31.2	16.8	Q902	14.3	13.6	14.3
Q610	-15.3	-31.3	-16.6	Q904	1.7m	34m	2.65
Q701	8.1	14.3	8.8	Q905	6.5	7.9m	6.4
Q801	0	31	0	Q906	14.3	-6.8	14.2
Q802	0	31	0	Q907	1.7m	14.2	7.7m
Q803	31	0	31	Q908	1.7m	1.7m	0.55
Q804	0	8.1	0				

[Measuring Conditions]
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Meter
- Measuring Point Reference : Between GND
- Measuring Condition : No signal input

MRV-F409

Electrical Parts List

Capacitor : μF=microfarads,pF=picofarads

Abbreviations

RES.= Resistor	CAP.= Capacitor
C.F.= Carbon Film	ELY.= Electrolytic
M.F.= Metal Film	CER.= Ceramic
M.O.= Metal OxideFilm	MYL.= Mylar
M.P.= Metal Plate	TAN.= Tantalum
TR. = Transistor	POLY.= Polystyrol
TRANS.= Transformer	PP. = Polypropylene
CP. = Chip	PLT.= Polyethylene
	PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.W.Board		
IC's		
IC101	51T80136F04	IC, M5238FP
IC102	51T80136F04	IC, M5238FP
IC103	51T80136F04	IC, M5238FP
IC104	51T80136F04	IC, M5238FP
IC105	51E22130S01	IC, NJM 4560M -TE3
IC201	51E22130S01	IC, NJM 4560M -TE3
IC202	51E22130S01	IC, NJM 4560M -TE3
IC203	51E22130S01	IC, NJM 4560M -TE3
IC204	51E22130S01	IC, NJM 4560M -TE3
IC205	51E22130S01	IC, NJM 4560M -TE3
IC206	51E22130S01	IC, NJM 4560M -TE3
IC207	51E22130S01	IC, NJM 4560M -TE3
IC208	51E22130S01	IC, NJM 4560M -TE3
IC301	51T80136F04	IC, M5238FP
IC302	51T80136F04	IC, M5238FP
IC701	51E27890S01	IC, uPC 494GS
IC702	51E20551S01	IC, NJM 4558M -TE3
IC803	51T25386Y01	MC14081BF-L
Transistors		
Q401	48T61719F01	FET TKR 2SK 389BL
Q402	48T61719F01	FET TKR 2SK 389BL
Q403	48T61719F01	FET TKR 2SK 389BL
Q404	48T61719F01	FET TKR 2SK 389BL
Q405	48E09036S02	TR, KTA 1266-Y -RD
Q406	48E09036S02	TR, KTA 1266-Y -RD
Q407	48E09036S02	TR, KTA 1266-Y -RD
Q408	48E09036S02	TR, KTA 1266-Y -RD
Q409	48E09036S02	TR, KTA 1266-Y -RD
Q410	48E09036S02	TR, KTA 1266-Y -RD
Q411	48E09036S02	TR, KTA 1266-Y -RD
Q412	48E09036S02	TR, KTA 1266-Y -RD
Q413	48E27752S01	TR, KSA 992
Q414	48E27752S01	TR, KSA 992
Q415	48E27752S01	TR, KSA 992
Q416	48E27752S01	TR, KSA 992
Q417	48E09088S01	TR, KTC 3198-Y -RD
Q418	48E09088S01	TR, KTC 3198-Y -RD
Q419	48E09088S01	TR, KTC 3198-Y -RD
Q420	48E09088S01	TR, KTC 3198-Y -RD
Q421	48E27753S01	TR, KSC 1845
Q422	48E27753S01	TR, KSC 1845
Q423	48E27753S01	TR, KSC 1845
Q424	48E27753S01	TR, KSC 1845
Q425	48E08329S01	TR, KSC 2682-Y
Q426	48E08329S01	TR, KSC 2682-Y
Q427	48E08329S01	TR, KSC 2682-Y
Q428	48E08329S01	TR, KSC 2682-Y
Q429	48E10027S01	TR, KSC 2690A-Y
Q430	48E10027S01	TR, KSC 2690A-Y
Q431	48E10027S01	TR, KSC 2690A-Y
Q432	48E10027S01	TR, KSC 2690A-Y
Q433	48E05943S01	TR, KSA 1220A-Y
Q434	48E05943S01	TR, KSA 1220A-Y
Q435	48E05943S01	TR, KSA 1220A-Y
Q436	48E05943S01	TR, KSA 1220A-Y
Q437	48E29545S01	TR, KTC 3911-GR -CP
Q438	48E29545S01	TR, KTC 3911-GR -CP
Q439	48E29545S01	TR, KTC 3911-GR -CP
Q440	48E29545S01	TR, KTC 3911-GR -CP
Q441	48E29545S01	TR, KTC 3911-GR -CP
Q442	48E29545S01	TR, KTC 3911-GR -CP
Q443	48E29545S01	TR, KTC 3911-GR -CP
Q444	48E29545S01	TR, KTC 3911-GR -CP
Q445	48T25535Y01	FET IRF 540F
Q446	48T25535Y01	FET IRF 540F
Q447	48T25535Y01	FET IRF 540F
Q448	48T25535Y01	FET IRF 540F
Q449	48T25536Y01	FET IRF 9540N
Q450	48T25536Y01	FET IRF 9540N
Q451	48T25536Y01	FET IRF 9540N
Q452	48T25536Y01	FET IRF 9540N
Q453	48E31104S01	TR, KTC 2874-B -RD
Q454	48E31104S01	TR, KTC 2874-B -RD
Q455	48E31104S01	TR, KTC 2874-B -RD
Q456	48E31104S01	TR, KTC 2874-B -RD
Q501	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q502	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q503	48E22900S01	TR, 2SA1037K-Q, R, S-CP

Symbol No.	Part No.	Description
Q504	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q505	48E27753S01	TR, KSC 1845
Q506	48E27753S01	TR, KSC 1845
Q507	48E27753S01	TR, KSC 1845
Q508	48E27753S01	TR, KSC 1845
Q509	48E22902S01	TR, 2SC2412K-T146 -CP
Q510	48E22902S01	TR, 2SC2412K-T146 -CP
Q511	48E22902S01	TR, 2SC2412K-T146 -CP
Q512	48E22902S01	TR, 2SC2412K-T146 -CP
Q513	48E22902S01	TR, 2SC2412K-T146 -CP
Q514	48E22902S01	TR, 2SC2412K-T146 -CP
Q515	48E22902S01	TR, 2SC2412K-T146 -CP
Q516	48E22902S01	TR, 2SC2412K-T146 -CP
Q601	48E29536S01	FET, IRFZ 44N
Q602	48E29536S01	FET, IRFZ 44N
Q603	48E29536S01	FET, IRFZ 44N
Q604	48E29536S01	FET, IRFZ 44N
Q605	48E29536S01	FET, IRFZ 44N
Q606	48E29536S01	FET, IRFZ 44N
Q607	48E10027S01	TR, KSC 2690A-Y
Q608	48E05943S01	TR, KSA 1220A-Y
Q609	48E10027S01	TR, KSC 2690A-Y
Q610	48E05943S01	TR, KSA 1220A-Y
Q701	48E23701S01	TR, KTC 3228-O -RD
Q801	48E22902S01	TR, 2SC2412K-T146 -CP
Q802	48E22902S01	TR, 2SC2412K-T146 -CP
Q803	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q804	48E22902S01	TR, 2SC2412K-T146 -CP
Q805	48E22902S01	TR, 2SC2412K-T146 -CP
Q806	48E22903S01	TR, DTC143EK-T146 -CP
Q807	48E23890S01	TR, DTA143EK-T146 -CP
Q808	48E23890S01	TR, DTA143EK-T146 -CP
Q809	48E22903S01	TR, DTC143EK-T146 -CP
Q810	48E22903S01	TR, DTC143EK-T146 -CP
Q811	48E22903S01	TR, DTC143EK-T146 -CP
Q812	48E23890S01	TR, DTA143EK-T146 -CP
Q813	48E22903S01	TR, DTC143EK-T146 -CP
Q814	48E22902S01	TR, 2SC2412K-T146 -CP
Q815	48E23890S01	TR, DTA143EK-T146 -CP
Q816	48E22903S01	TR, DTC143EK-T146 -CP
Q817	48E23890S01	TR, DTA143EK-T146 -CP
Q818	48E22903S01	TR, DTC143EK-T146 -CP
Q819	48E22903S01	TR, DTC143EK-T146 -CP
Q820	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q821	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q822	48E22902S01	TR, 2SC2412K-T146 -CP
Q823	48E22555S01	TR, DTC144EK-T146 -CP
Q824	48E22902S01	TR, 2SC2412K-T146 -CP
Q825	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q826	48E10426S01	TR, DTC124EK-T146 -CP
Q828	48E23890S01	TR, DTA143EK-T146 -CP
Q829	48E22902S01	TR, 2SC2412K-T146 -CP
Q830	48E22555S01	TR, DTC144EK-T146 -CP
Q901	48E23700S01	TR, KTA 1275-O -RD
Q902	48E23700S01	TR, KTA 1275-O -RD
Q904	48E22903S01	TR, DTC143EK-T146 -CP
Q905	48E22900S01	TR, 2SA1037K-Q, R, S-CP
Q906	48E23697S01	TR, DTA144EK-T146 -CP
Q907	48E22555S01	TR, DTC144EK-T146 -CP
Q908	48E22902S01	TR, 2SC2412K-T146 -CP

Diodes

D401	48E22916S01	DIO, 1SS133-T-77 -AX
D402	48E22916S01	DIO, 1SS133-T-77 -AX
D403	48E22916S01	DIO, 1SS133-T-77 -AX
D404	48E22916S01	DIO, 1SS133-T-77 -AX
D601	48E25517S01	DIO, 11EFS2
D602	48E25517S01	DIO, 11EFS2
D603	48E25517S01	DIO, 11EFS2
D604	48E25517S01	DIO, 11EFS2
D605	48T45335Y01	DIO, SHT FCH20A15 -DS
D606	48T45335Y02	DIO, SHT FRH20A15 -DS
D614	48E23703S01	DIO, IN 4003 -AX
D801	48E22916S01	DIO, 1SS133-T-77 -AX
D802	48E22916S01	DIO, 1SS133-T-77 -AX
D804	48E22916S01	DIO, 1SS133-T-77 -AX
D805	48E22916S01	DIO, 1SS133-T-77 -AX
D806	48E22916S01	DIO, 1SS133-T-77 -AX
D807	48E22916S01	DIO, 1SS133-T-77 -AX
D808	48E25517S01	DIO, 11EFS2
D809	48E22916S01	DIO, 1SS133-T-77 -AX
D810	48E22916S01	DIO, 1SS133-T-77 -AX
D901	48E23703S01	DIO, IN 4003 -AX
D902	48E23703S01	DIO, IN 4003 -AX
D903	48E23703S01	DIO, IN 4003 -AX
D904	48E22916S01	DIO, 1SS133-T-77 -AX
D905	48E22916S01	DIO, 1SS133-T-77 -AX
D906	48E22916S01	DIO, 1SS133-T-77 -AX
D907	48E23703S01	DIO, IN 4003 -AX
ZD401	48T25801W01	DIO, ZEN HZS 2ALL -R5
ZD402	48T25801W01	DIO, ZEN HZS 2ALL -R5
ZD403	48T25801W01	DIO, ZEN HZS 2ALL -R5
ZD404	48T25801W01	DIO, ZEN HZS 2ALL -R5
ZD601	48E32092S01	DIO, ZEN. MTZJ-36-C-AX
ZD604	48E32092S01	DIO, ZEN. MTZJ-36-C-AX
ZD605	48E22436S01	DIO, ZEN. MTZJ-16-B-AX

Symbol No.	Part No.	Description
ZD606	48E22436S01	DIO, ZEN. MTZJ-16-B-AX
ZD701	48E08332S01	DIO, ZEN. MTZJ-22-B-AX
ZD702	48E22162S01	DIO, ZEN. MTZJ-9.1B-AX
ZD703	48E22944S01	DIO, ZEN. MTZJ-5.1B-AX
ZD801	48E08332S01	DIO, ZEN. MTZJ-22-B-AX
ZD901	48E29521S01	DIO, ZEN. MTZJ-6.2B-AX
ZD902	48E22917S01	DIO, ZEN. MTZJ-6.8B-AX
Switches		
SW101	40E20895S01	S/W, SSAF 123NA(INPUT CHANNEL)
SW102	40T94668F06	S/W SSSF 142(DIRECT MODE)
SW201	40T94668F06	S/W SSSF 142(HP(X1/X20))
SW202	40E23679S01	S/W, SSAF 122NA(HP)
SW203	40E23679S01	S/W, SSAF 122NA(HP)
SW204	40T94668F06	S/W SSSF 142(LP(1X/X20))
SW205	40E23679S01	S/W, SSAF 122NA(LP)
SW206	40E23679S01	S/W, SSAF 122NA(LP)
Coils		
L601	24E25516S01	CHOKE COIL +, -20%(10uH)
L602	24E25516S01	CHOKE COIL +, -20%(10uH)
L603	25E20892S01	CHOKE, COIL(38uH)
L604	25E20892S01	CHOKE, COIL(38uH)
L901	24E29518S01	CHOKE COIL +, -10%(100uH)
Transformers		
T601	25E32073S01	ASS'Y POWER TRANS
T901	25E29538S01	CHOKE, TRANS 35m/m
T902	25E29538S01	CHOKE, TRANS 35m/m
Thermistors		
TH701	48E20887S01	TH, YTD5-320(20K)-YEL
TH801	48E20887S01	TH, YTD5-320(20K)-YEL
Photo Coupler		
PT701	48E25501S01	PHOTO COUPLER

Symbol No.	Part No.	Description
Capacitors		
C101	08E32090S01	CAP, CER. 150-J-CH -AX
C102	08E32090S01	CAP, CER. 150-J-CH -AX
C103	08E32090S01	CAP, CER. 150-J-CH -AX
C104	08E32090S01	CAP, CER. 150-J-CH -AX
C105	08E29554S01	CAP, CER. 5R6-K-SL -AX
C106	08E29554S01	CAP, CER. 5R6-K-SL -AX
C107	08E29554S01	CAP, CER. 5R6-K-SL -AX
C108	08E29554S01	CAP, CER. 5R6-K-SL -AX
C109	08E20072S01	CAP, CER. 100-J-CH -AX
C110	08E20072S01	CAP, CER. 100-J-CH -AX
C111	08E20072S01	CAP, CER. 100-J-CH -AX
C112	08E20072S01	CAP, CER. 100-J-CH -AX
C117	21E06806S02	CAP, CER. 330-J-SL -AX
C118	21E06806S02	CAP, CER. 330-J-SL -AX
C119	08E32091S01	CAP, CER. 560-J-SL -AX
C120	08E32091S01	CAP, CER. 560-J-SL -AX
C121	08E32091S01	CAP, CER. 560-J-SL -AX
C122	08E32091S01	CAP, CER. 560-J-SL -AX
C201	08E29546S01	CAP, TF. AMCS 392-J-RD
C202	08E29546S01	CAP, TF. AMCS 392-J-RD
C203	08E29546S01	CAP, TF. AMCS 392-J-RD
C204	08E29546S01	CAP, TF. AMCS 392-J-RD
C205	08E22526S01	CAP, TF. MMTS 823-J-RD
C206	08E22526S01	CAP, TF. MMTS 823-J-RD
C207	08E22526S01	CAP, TF. MMTS 823-J-RD
C208	08E22526S01	CAP, TF. MMTS 823-J-RD
C209	08E22526S01	CAP, TF. MMTS 823-J-RD
C210	08E22526S01	CAP, TF. MMTS 823-J-RD
C211	08E22526S01	CAP, TF. MMTS 823-J-RD
C212	08E22526S01	CAP, TF. MMTS 823-J-RD
C213	08E20072S01	CAP, CER. 100-J-CH -AX
C214	08E20072S01	CAP, CER. 100-J-CH -AX
C215	08E20072S01	CAP, CER. 100-J-CH -AX
C216	08E20072S01	CAP, CER. 100-J-CH -AX
C217	08E22939S01	CAP, TF. MMTS 184-J-RD
C218	08E22939S01	CAP, TF. MMTS 184-J-RD
C219	08E22939S01	CAP, TF. MMTS 184-J-RD
C220	08E22939S01	CAP, TF. MMTS 184-J-RD
C221	08E22939S01	CAP, TF. MMTS 184-J-RD
C222	08E22939S01	CAP, TF. MMTS 184-J-RD
C223	08E22939S01	CAP, TF. MMTS 184-J-RD
C224	08E22939S01	CAP, TF. MMTS 184-J-RD
C229	08E22526S01	CAP, TF. MMTS 823-J-RD
C230	08E22526S01	CAP, TF. MMTS 823-J-RD
C231	08E22526S01	CAP, TF. MMTS 823-J-RD
C232	08E22526S01	CAP, TF. MMTS 823-J-RD
C233	08E29546S01	CAP, TF. AMCS 392-J-RD

Symbol No.	Part No.	Description
C234	08E29546S01	CAP, TF. AMCS 392-J-RD
C235	08E22937S01	CAP, TF. MMTS 393-J-RD
C236	08E22937S01	CAP, TF. MMTS 393-J-RD
C237	08E22937S01	CAP, TF. MMTS 393-J-RD
C238	08E22937S01	CAP, TF. MMTS 393-J-RD
C239	08E20992S01	CAP, TF. AMCS 222-J-RD
C240	08E20992S01	CAP, TF. AMCS 222-J-RD
C303	08E29554S01	CAP, CER. 5R6-K-SL -AX
C304	08E29554S01	CAP, CER. 5R6-K-SL -AX
C305	08E32089S01	CAP, CER. 3R3-K-SL -AX
C306	08E32089S01	CAP, CER. 3R3-K-SL -AX
C307	08T55390W34	CAP, TF 274J-1H -R5
C308	08T55390W34	CAP, TF 274J-1H -R5
C309	08T55390W34	CAP, TF 274J-1H -R5
C310	08T55390W34	CAP, TF 274J-1H -R5
C401	08E22899S01	CAP, CER. 101-J-CP 50V
C402	08E22899S01	CAP, CER. 101-J-CP 50V
C403	08E22899S01	CAP, CER. 101-J-CP 50V
C404	08E22899S01	CAP, CER. 101-J-CP 50V
C405	08E22081S01	CAP, CER. 102-J-CP 50V
C406	08E22081S01	CAP, CER. 102-J-CP 50V
C407	08E22081S01	CAP, CER. 102-J-CP 50V
C408	08E22081S01	CAP, CER. 102-J-CP 50V
C409	08E22077S01	CAP, CER. 470-J-CP 50V
C410	08E22077S01	CAP, CER. 470-J-CP 50V
C411	08E22077S01	CAP, CER. 470-J-CP 50V
C412	08E22077S01	CAP, CER. 470-J-CP 50V
C413	08E29115S01	CAP, CER. 6R0-D-CP 50V
C414	08E29115S01	CAP, CER. 6R0-D-CP 50V
C415	08E29115S01	CAP, CER. 6R0-D-CP 50V
C416	08E29115S01	CAP, CER. 6R0-D-CP 50V
C417	08E22969S01	CAP, TF. MMTS 103-J-RD
C418	08E22969S01	CAP, TF. MMTS 103-J-RD
C419	08E22969S01	CAP, TF. MMTS 103-J-RD
C420	08E22969S01	CAP, TF. MMTS 103-J-RD
C421	08E25510S01	CAP, CER. 151-J-CP 50V
C422	08E25510S01	CAP, CER. 151-J-CP 50V
C423	08E25510S01	CAP, CER. 151-J-CP 50V
C424	08E25510S01	CAP, CER. 151-J-CP 50V
C425	08E25510S01	CAP, CER. 151-J-CP 50V
C426	08E25510S01	CAP, CER. 151-J-CP 50V
C427	08E25510S01	CAP, CER. 151-J-CP 50V
C428	08E25510S01	CAP, CER. 151-J-CP 50V
C429	08E25510S01	CAP, CER. 151-J-CP 50V
C430	08E25510S01	CAP, CER. 151-J-CP 50V
C431	08E25510S01	CAP, CER. 151-J-CP 50V
C432	08E25510S01	CAP, CER. 151-J-CP 50V
C433	08E25510S01	CAP, CER. 151-J-CP 50V
C434	08E25510S01	CAP, CER. 151-J-CP 50V

Symbol No.	Part No.	Description
C435	08E25510S01	CAP, CER. 151-J-CP 50V
C436	08E25510S01	CAP, CER. 151-J-CP 50V
C437	08E22938S01	CAP, TF. MMTS 473-J-RD
C438	08E22938S01	CAP, TF. MMTS 473-J-RD
C439	08E22938S01	CAP, TF. MMTS 473-J-RD
C440	08E22938S01	CAP, TF. MMTS 473-J-RD
C441	08E22081S01	CAP, CER. 102-J-CP 50V
C442	08E22081S01	CAP, CER. 102-J-CP 50V
C443	08E22081S01	CAP, CER. 102-J-CP 50V
C444	08E22081S01	CAP, CER. 102-J-CP 50V
C601	08E22936S01	CAP, TF. MMTS 223-J-RD
C602	08E22936S01	CAP, TF. MMTS 223-J-RD
C603	08E22938S01	CAP, TF. MMTS 473-J-RD
C604	08E22938S01	CAP, TF. MMTS 473-J-RD
C605	08E22938S01	CAP, TF. MMTS 473-J-RD
C606	08E22938S01	CAP, TF. MMTS 473-J-RD
C607	08E22524S01	CAP, TF. MMTS 563-J-RD
C608	08E22524S01	CAP, TF. MMTS 563-J-RD
C609	08E22524S01	CAP, TF. MMTS 563-J-RD
C610	08E22524S01	CAP, TF. MMTS 563-J-RD
C622	08E20756S01	CAP, TF. MMTS 154-J-RD
C701	23T00180L25	CAP, NSI 10R-1H -R5
C702	08E22435S01	CAP, TF. MMTS 104-J-RD
C703	08E25318S01	CAP, TF. AMCS 152-J-RD
C704	08E23699S01	CAP, TF. MMTS 224-J-RD
C804	08E22081S01	CAP, CER. 102-J-CP 50V
C806	08E22969S01	CAP, TF. MMTS 103-J-RD
C826	08E10252S01	CAP, CER. 102-J-CP 50V
C901	08E20756S01	CAP, TF. MMTS 154-J-RD
C902	08E20756S01	CAP, TF. MMTS 154-J-RD
C903	08E22969S01	CAP, TF. MMTS 103-J-RD
C904	08E22435S01	CAP, TF. MMTS 104-J-RD
C905	08E22081S01	CAP, CER. 102-J-CP 50V
C906	08E22081S01	CAP, CER. 102-J-CP 50V
E101	23T45424Y50	CAP, NSI 33R-1H -BP
E102	23T45424Y50	CAP, NSI 33R-1H -BP
E103	23T45424Y50	CAP, NSI 33R-1H -BP
E104	23T45424Y50	CAP, NSI 33R-1H -BP
E109	23E08383S08	CAP, SMS 10/16-M -RD
E110	23E08383S08	CAP, SMS 10/16-M -RD
E111	08T55390W34	CAP, TF 274J-1H -R5
E112	08T55390W34	CAP, TF 274J-1H -R5
E113	08T55390W34	CAP, TF 274J-1H -R5
E114	08T55390W34	CAP, TF 274J-1H -R5
E201	23T45174W06	CAP, SME 22R-1C(SME-BP)
E202	23T45174W06	CAP, SME 22R-1C(SME-BP)
E203	23T45174W06	CAP, SME 22R-1C(SME-BP)
E204	23T45174W06	CAP, SME 22R-1C(SME-BP)
E205	23T45174W17	CAP, SME 2R2-1H-BP-R5

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Symbol No.	Part No.	Description
E206	23T45174W17	CAP, SME 2R2-1H-BP-R5
E207	23T45174W17	CAP, SME 2R2-1H-BP-R5
E208	23T45174W17	CAP, SME 2R2-1H-BP-R5
E301	23T45174W06	CAP, SME 22R-1C(SME-BP)
E302	23T45174W06	CAP, SME 22R-1C(SME-BP)
E303	23T45174W06	CAP, SME 22R-1C(SME-BP)
E304	23T45174W06	CAP, SME 22R-1C(SME-BP)
E401	23T45424Y50	CAP, NSI 33R-1H -BP
E402	23T45424Y50	CAP, NSI 33R-1H -BP
E403	23T45424Y50	CAP, NSI 33R-1H -BP
E404	23T45424Y50	CAP, NSI 33R-1H -BP
E405	23T00180L28	CAP, NSI 47R-1H(NS-1)
E406	23T00180L28	CAP, NSI 47R-1H(NS-1)
E407	23T00180L28	CAP, NSI 47R-1H(NS-1)
E408	23T00180L28	CAP, NSI 47R-1H(NS-1)
E409	23T00180L28	CAP, NSI 47R-1H(NS-1)
E410	23T00180L28	CAP, NSI 47R-1H(NS-1)
E411	23T00180L28	CAP, NSI 47R-1H(NS-1)
E412	23T00180L28	CAP, NSI 47R-1H(NS-1)
E413	23T45424Y50	CAP, NSI 33R-1H -BP
E414	23T45424Y50	CAP, NSI 33R-1H -BP
E415	23T45424Y50	CAP, NSI 33R-1H -BP
E416	23T45424Y50	CAP, NSI 33R-1H -BP
E417	23T45102W22	CAP, NSI 2R2-1H(NS-1)
E418	23T45102W22	CAP, NSI 2R2-1H(NS-1)
E419	23T45102W22	CAP, NSI 2R2-1H(NS-1)
E420	23T45102W22	CAP, NSI 2R2-1H(NS-1)
E421	23T00149L53	CAP, SME 2R2-1H -R5
E422	23T00149L53	CAP, SME 2R2-1H -R5
E423	23T00149L53	CAP, SME 2R2-1H -R5
E424	23T00149L53	CAP, SME 2R2-1H -R5
E429	23S55311W22	CAP, TAN, 4R7-1A-A- CP
E430	23S55311W22	CAP, TAN, 4R7-1A-A- CP
E431	23S55311W22	CAP, TAN, 4R7-1A-A- CP
E432	23S55311W22	CAP, TAN, 4R7-1A-A- CP
E601	23T25139Y01	CAP, PW 392-1C
E602	23T25139Y01	CAP, PW 392-1C
E603	23E22148S01	CAP, 470/50-M -RD
E604	23E22148S01	CAP, 470/50-M -RD
E606	23T00134L75	CAP, SME 102-1H
E607	23T00134L75	CAP, SME 102-1H
E608	23T45437Y01	CAP, NSN 822-1V
E609	23T45437Y01	CAP, NSN 822-1V
E610	08T55390W41	CAP, TF 105J-1H -R5
E611	08T55390W41	CAP, TF 105J-1H -R5
E612	08T55390W41	CAP, TF 105J-1H -R5
E613	08T55390W41	CAP, TF 105J-1H -R5
E614	23T00134L60	CAP, SME 222-1V
E615	23T00134L60	CAP, SME 222-1V

Symbol No.	Part No.	Description
E616	23T00149L39	CAP, SME 471-1E -R5
E617	23T00149L39	CAP, SME 471-1E -R5
E701	23T00180L21	CAP, NSI 1R0-1H -R5
E702	23E10238S01	CAP, 100/16-M -RD
E703	23E20849S01	CAP, SMS 100/10-M -RD
E704	23E20211S01	CAP, SMS 330/16-M -RD
E705	23E08383S18	CAP, SMS 0.1/50-M -RD
E801	23E11142S01	CAP, 100/10-M-BP -RD
E802	23E29495S01	CAP, 10/16-M-BP -RD
E803	23E29495S01	CAP, 10/16-M-BP -RD
E804	23E20211S01	CAP, SMS 330/16-M -RD
E805	23E22158S01	CAP, SMS 10/50-M -RD
E806	23E22158S01	CAP, SMS 10/50-M -RD
E807	23E20849S01	CAP, SMS 100/10-M -RD
E808	23E08383S18	CAP, SMS 0.1/50-M -RD
E809	23E23848S01	CAP, SHL 220/10-M -RD
E810	23E08383S16	CAP, SMS 4.7/50-M -RD
E902	23E08383S13	CAP, SMS 22/16-M -RD
E903	23E08383S08	CAP, SMS 10/16-M -RD
E904	23E08383S08	CAP, SMS 10/16-M -RD
E905	23E23848S01	CAP, SHL 220/10-M -RD

Resistors

J702	06E20905S01	RES, CF. 0R0-J-1/10-CP
R101	06E32084S01	RES, CF. 131-J-1/8-AX
R102	06E32084S01	RES, CF. 131-J-1/8-AX
R103	06E32084S01	RES, CF. 131-J-1/8-AX
R104	06E32084S01	RES, CF. 131-J-1/8-AX
R105	06E29180S01	RES, CF. 333-J-1/8-AX
R106	06E29180S01	RES, CF. 333-J-1/8-AX
R107	06E29180S01	RES, CF. 333-J-1/8-AX
R108	06E29180S01	RES, CF. 333-J-1/8-AX
R109	06E29332S01	RES, CF. 681-J-1/8-AX
R110	06E29332S01	RES, CF. 681-J-1/8-AX
R111	06E29332S01	RES, CF. 681-J-1/8-AX
R112	06E29332S01	RES, CF. 681-J-1/8-AX
R113	06E22108S01	RES, CF. 822-J-1/8-AX
R114	06E22108S01	RES, CF. 822-J-1/8-AX
R115	06E22108S01	RES, CF. 822-J-1/8-AX
R116	06E22108S01	RES, CF. 822-J-1/8-AX
R117	06E20063S01	RES, CF. 123-J-1/8-AX
R118	06E20063S01	RES, CF. 123-J-1/8-AX
R119	06E20063S01	RES, CF. 123-J-1/8-AX
R120	06E20063S01	RES, CF. 123-J-1/8-AX
R121	06E22557S01	RES, CF. 911-J-1/8-AX
R122	06E22557S01	RES, CF. 911-J-1/8-AX
R123	06E22557S01	RES, CF. 911-J-1/8-AX

Symbol No.	Part No.	Description
R124	06E22557S01	RES, CF. 911-J-1/8-AX
R125	06E22517S01	RES, CF. 152-J-1/8-AX
R126	06E22517S01	RES, CF. 152-J-1/8-AX
R127	06E22517S01	RES, CF. 152-J-1/8-AX
R128	06E22517S01	RES, CF. 152-J-1/8-AX
R129	06E29364S01	RES, CF. 563-J-1/8-AX
R130	06E29364S01	RES, CF. 563-J-1/8-AX
R131	06E29364S01	RES, CF. 563-J-1/8-AX
R132	06E29364S01	RES, CF. 563-J-1/8-AX
R133	06E20064S01	RES, CF. 223-J-1/8-AX
R134	06E20064S01	RES, CF. 223-J-1/8-AX
R135	06E20050S01	RES, CF. 101-J-1/8-AX
R136	06E20050S01	RES, CF. 101-J-1/8-AX
R137	09E29338S01	RES, CF. 273-J-1/8-AX
R138	09E29338S01	RES, CF. 273-J-1/8-AX
R139	06E29274S01	RES, CF. 751-J-1/8-AX
R140	06E29274S01	RES, CF. 751-J-1/8-AX
R141	06E20070S01	RES, CF. 105-J-1/8-AX
R142	06E20070S01	RES, CF. 105-J-1/8-AX
R143	06E20062S01	RES, CF. 103-J-1/8-AX
R144	06E20062S01	RES, CF. 103-J-1/8-AX
R145	06E20062S01	RES, CF. 103-J-1/8-AX
R146	06E20062S01	RES, CF. 103-J-1/8-AX
R201	06E29362S01	RES, CF. 362-J-1/8-AX
R202	06E29362S01	RES, CF. 362-J-1/8-AX
R203	06E29362S01	RES, CF. 362-J-1/8-AX
R204	06E29362S01	RES, CF. 362-J-1/8-AX
R205	06E20060S01	RES, CF. 682-J-1/8-AX
R206	06E20060S01	RES, CF. 682-J-1/8-AX
R207	06E20060S01	RES, CF. 682-J-1/8-AX
R208	06E20060S01	RES, CF. 682-J-1/8-AX
R209	06E20062S01	RES, CF. 103-J-1/8-AX
R210	06E20062S01	RES, CF. 103-J-1/8-AX
R211	06E20062S01	RES, CF. 103-J-1/8-AX
R212	06E20062S01	RES, CF. 103-J-1/8-AX
R213	06E20062S01	RES, CF. 103-J-1/8-AX
R214	06E20062S01	RES, CF. 103-J-1/8-AX
R215	06E20062S01	RES, CF. 103-J-1/8-AX
R216	06E20062S01	RES, CF. 103-J-1/8-AX
R217	06E20066S01	RES, CF. 683-J-1/8-AX
R218	06E20066S01	RES, CF. 683-J-1/8-AX
R219	06E20066S01	RES, CF. 683-J-1/8-AX
R220	06E20066S01	RES, CF. 683-J-1/8-AX
R221	06E30152S01	RES, CF. 433-J-1/8-AX
R222	06E30152S01	RES, CF. 433-J-1/8-AX
R223	06E30152S01	RES, CF. 433-J-1/8-AX
R224	06E30152S01	RES, CF. 433-J-1/8-AX
R225	06E30153S01	RES, CF. 114-J-1/8-AX
R226	06E30153S01	RES, CF. 114-J-1/8-AX

Symbol No.	Part No.	Description
R227	06E30153S01	RES, CF. 114-J-1/8-AX
R228	06E30153S01	RES, CF. 114-J-1/8-AX
R229	06E20066S01	RES, CF. 683-J-1/8-AX
R230	06E20066S01	RES, CF. 683-J-1/8-AX
R231	06E20066S01	RES, CF. 683-J-1/8-AX
R232	06E20066S01	RES, CF. 683-J-1/8-AX
R233	06E30142S01	RES, CF. 622-J-1/8-AX
R234	06E30142S01	RES, CF. 622-J-1/8-AX
R235	06E30142S01	RES, CF. 622-J-1/8-AX
R236	06E30142S01	RES, CF. 622-J-1/8-AX
R237	06E30142S01	RES, CF. 622-J-1/8-AX
R238	06E30142S01	RES, CF. 622-J-1/8-AX
R239	06E30142S01	RES, CF. 622-J-1/8-AX
R240	06E30142S01	RES, CF. 622-J-1/8-AX
R241	06E20066S01	RES, CF. 683-J-1/8-AX
R242	06E20066S01	RES, CF. 683-J-1/8-AX
R243	06E20066S01	RES, CF. 683-J-1/8-AX
R244	06E20066S01	RES, CF. 683-J-1/8-AX
R301	06E30150S01	RES, CF. 153-J-1/8-AX
R302	06E30150S01	RES, CF. 153-J-1/8-AX
R303	06E30150S01	RES, CF. 153-J-1/8-AX
R304	06E30150S01	RES, CF. 153-J-1/8-AX
R305	06E22107S01	RES, CF. 562-J-1/8-AX
R306	06E22107S01	RES, CF. 562-J-1/8-AX
R307	06E22107S01	RES, CF. 562-J-1/8-AX
R308	06E22107S01	RES, CF. 562-J-1/8-AX
R309	09E29338S01	RES, CF. 273-J-1/8-AX
R310	09E29338S01	RES, CF. 273-J-1/8-AX
R311	09E29338S01	RES, CF. 273-J-1/8-AX
R312	09E29338S01	RES, CF. 273-J-1/8-AX
R313	06E29337S01	RES, CF. 243-J-1/8-AX
R314	06E29337S01	RES, CF. 243-J-1/8-AX
R315	06E22108S01	RES, CF. 822-J-1/8-AX
R316	06E22912S01	RES, CF. 363-J-1/8-AX
R317	06E22108S01	RES, CF. 822-J-1/8-AX
R318	06E22912S01	RES, CF. 363-J-1/8-AX
R401	06E22940S01	RES, CF. 471-J-1/8-AX
R402	06E22940S01	RES, CF. 471-J-1/8-AX
R403	06E22940S01	RES, CF. 471-J-1/8-AX
R404	06E22940S01	RES, CF. 471-J-1/8-AX
R405	06E22912S01	RES, CF. 363-J-1/8-AX
R406	06E22912S01	RES, CF. 363-J-1/8-AX
R407	06E22912S01	RES, CF. 363-J-1/8-AX
R408	06E22912S01	RES, CF. 363-J-1/8-AX
R409	06E22557S01	RES, CF. 911-J-1/8-AX
R410	06E22557S01	RES, CF. 911-J-1/8-AX
R411	06E22557S01	RES, CF. 911-J-1/8-AX
R412	06E22557S01	RES, CF. 911-J-1/8-AX
R413	06E20062S01	RES, CF. 103-J-1/8-AX

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Symbol No.	Part No.	Description
R414	06E20062S01	RES, CF. 103-J-1/8-AX
R415	06E20062S01	RES, CF. 103-J-1/8-AX
R416	06E20062S01	RES, CF. 103-J-1/8-AX
R421	06E29330S01	RES, CF. 33R-J-1/8-AX
R422	06E29330S01	RES, CF. 33R-J-1/8-AX
R423	06E29330S01	RES, CF. 33R-J-1/8-AX
R424	06E29330S01	RES, CF. 33R-J-1/8-AX
R425	06E29330S01	RES, CF. 33R-J-1/8-AX
R426	06E29330S01	RES, CF. 33R-J-1/8-AX
R427	06E29330S01	RES, CF. 33R-J-1/8-AX
R428	06E29330S01	RES, CF. 33R-J-1/8-AX
R429	06E22940S01	RES, CF. 471-J-1/8-AX
R430	06E22940S01	RES, CF. 471-J-1/8-AX
R431	06E22940S01	RES, CF. 471-J-1/8-AX
R432	06E22940S01	RES, CF. 471-J-1/8-AX
R433	06E32086S01	RES, CF. 301-J-1/8-AX
R434	06E32086S01	RES, CF. 301-J-1/8-AX
R435	06E32086S01	RES, CF. 301-J-1/8-AX
R436	06E32086S01	RES, CF. 301-J-1/8-AX
R437	06E31039S01	RES, CF. 563-J-1/4-AX
R438	06E31039S01	RES, CF. 563-J-1/4-AX
R439	06E31039S01	RES, CF. 563-J-1/4-AX
R440	06E31039S01	RES, CF. 563-J-1/4-AX
R441	06E32085S01	RES, CF. 241-J-1/8-AX
R442	06E32085S01	RES, CF. 241-J-1/8-AX
R443	06E32085S01	RES, CF. 241-J-1/8-AX
R444	06E32085S01	RES, CF. 241-J-1/8-AX
R445	06E30141S01	RES, CF. 68R-J-1/8-AX
R446	06E30141S01	RES, CF. 68R-J-1/8-AX
R447	06E30141S01	RES, CF. 68R-J-1/8-AX
R448	06E30141S01	RES, CF. 68R-J-1/8-AX
R449	06E29362S01	RES, CF. 362-J-1/8-AX
R450	06E29362S01	RES, CF. 362-J-1/8-AX
R451	06E29362S01	RES, CF. 362-J-1/8-AX
R452	06E29362S01	RES, CF. 362-J-1/8-AX
R453	06E22912S01	RES, CF. 363-J-1/8-AX
R454	06E22912S01	RES, CF. 363-J-1/8-AX
R455	06E22912S01	RES, CF. 363-J-1/8-AX
R456	06E22912S01	RES, CF. 363-J-1/8-AX
R457	06E20061S01	RES, CF. 912-J-1/8-AX
R458	06E20061S01	RES, CF. 912-J-1/8-AX
R459	06E20061S01	RES, CF. 912-J-1/8-AX
R460	06E20061S01	RES, CF. 912-J-1/8-AX
R461	06E29292S01	RES, CF. 182-J-1/8-AX
R462	06E29292S01	RES, CF. 182-J-1/8-AX
R463	06E29292S01	RES, CF. 182-J-1/8-AX
R464	06E29292S01	RES, CF. 182-J-1/8-AX
R465	06E24392S01	RES, CF. 7R5-J-1/4-CP
R466	06E24392S01	RES, CF. 7R5-J-1/4-CP

Symbol No.	Part No.	Description
R467	06E24392S01	RES, CF. 7R5-J-1/4-CP
R468	06E24392S01	RES, CF. 7R5-J-1/4-CP
R469	06E24392S01	RES, CF. 7R5-J-1/4-CP
R470	06E24392S01	RES, CF. 7R5-J-1/4-CP
R471	06E24392S01	RES, CF. 7R5-J-1/4-CP
R472	06E24392S01	RES, CF. 7R5-J-1/4-CP
R473	06E31823S01	RES, CF. 162-J-1/4-AX
R474	06E31823S01	RES, CF. 162-J-1/4-AX
R475	06E31823S01	RES, CF. 162-J-1/4-AX
R476	06E31823S01	RES, CF. 162-J-1/4-AX
R477	06E27917S01	RES, CHIP 1/4W-J -36
R478	06E27917S01	RES, CHIP 1/4W-J -36
R479	06E27917S01	RES, CHIP 1/4W-J -36
R480	06E27917S01	RES, CHIP 1/4W-J -36
R481	06E27917S01	RES, CHIP 1/4W-J -36
R482	06E27917S01	RES, CHIP 1/4W-J -36
R483	06E27917S01	RES, CHIP 1/4W-J -36
R484	06E27917S01	RES, CHIP 1/4W-J -36
R485	06E29544S01	RES, CF. 154-J-1/4-CP
R486	06E29544S01	RES, CF. 154-J-1/4-CP
R487	06E29544S01	RES, CF. 154-J-1/4-CP
R488	06E29544S01	RES, CF. 154-J-1/4-CP
R489	06E29544S01	RES, CF. 154-J-1/4-CP
R490	06E29544S01	RES, CF. 154-J-1/4-CP
R491	06E29544S01	RES, CF. 154-J-1/4-CP
R492	06E20050S01	RES, CF. 101-J-1/8-AX
R493	06E20050S01	RES, CF. 101-J-1/8-AX
R494	06E20050S01	RES, CF. 101-J-1/8-AX
R495	06E20050S01	RES, CF. 101-J-1/8-AX
R496	06E29292S01	RES, CF. 182-J-1/8-AX
R497	06E29292S01	RES, CF. 182-J-1/8-AX
R498	06E29292S01	RES, CF. 182-J-1/8-AX
R499	06E29292S01	RES, CF. 182-J-1/8-AX
R500	06E20053S01	RES, CF. 102-J-1/8-AX
R501	06E20053S01	RES, CF. 102-J-1/8-AX
R502	06E20053S01	RES, CF. 102-J-1/8-AX
R503	06E20053S01	RES, CF. 102-J-1/8-AX
R504	06E30149S01	RES, CF. 561-J-1/8-AX
R505	06E30149S01	RES, CF. 561-J-1/8-AX
R506	06E30149S01	RES, CF. 561-J-1/8-AX
R507	06E30149S01	RES, CF. 561-J-1/8-AX
R508	06E22058S01	RES, CF. 123-J-1/10-CP
R509	06E22058S01	RES, CF. 123-J-1/10-CP
R510	06E22058S01	RES, CF. 123-J-1/10-CP
R511	06E22058S01	RES, CF. 123-J-1/10-CP
R512	06E20907S01	RES, MO 1W1SJ 100E-RD
R513	06E20907S01	RES, MO 1W1SJ 100E-RD
R514	06E20907S01	RES, MO 1W1SJ 100E-RD
R515	06E20907S01	RES, MO 1W1SJ 100E-RD

Symbol No.	Part No.	Description
R516	06E32072S01	RES MPR 5W 0.1X2
R517	06E32072S01	RES MPR 5W 0.1X2
R518	06E32072S01	RES MPR 5W 0.1X2
R519	06E32072S01	RES MPR 5W 0.1X2
R520	06E29544S01	RES,CF. 154-J-1/4-CP
R521	06E29273S01	RES,CF. 331-J-1/8-AX
R522	06E29273S01	RES,CF. 331-J-1/8-AX
R523	06E29273S01	RES,CF. 331-J-1/8-AX
R524	06E29273S01	RES,CF. 331-J-1/8-AX
R525	06E22048S01	RES,CF.102-J-1/10-CP
R526	06E22048S01	RES,CF.102-J-1/10-CP
R527	06E22048S01	RES,CF.102-J-1/10-CP
R528	06E22048S01	RES,CF.102-J-1/10-CP
R529	06E22060S01	RES,CF.223-J-1/10-CP
R530	06E22060S01	RES,CF.223-J-1/10-CP
R531	06E22060S01	RES,CF.223-J-1/10-CP
R532	06E22060S01	RES,CF.223-J-1/10-CP
R533	06E20903S01	RES,CF.103-J-1/10-CP
R534	06E20903S01	RES,CF.103-J-1/10-CP
R535	06E20903S01	RES,CF.103-J-1/10-CP
R536	06E20903S01	RES,CF.103-J-1/10-CP
R537	06E20903S01	RES,CF.103-J-1/10-CP
R538	06E20903S01	RES,CF.103-J-1/10-CP
R539	06E20903S01	RES,CF.103-J-1/10-CP
R540	06E20903S01	RES,CF.103-J-1/10-CP
R541	06E20903S01	RES,CF.103-J-1/10-CP
R542	06E20903S01	RES,CF.103-J-1/10-CP
R543	06E20903S01	RES,CF.103-J-1/10-CP
R544	06E20903S01	RES,CF.103-J-1/10-CP
R545	06E20903S01	RES,CF.103-J-1/10-CP
R546	06E20903S01	RES,CF.103-J-1/10-CP
R547	06E20903S01	RES,CF.103-J-1/10-CP
R548	06E20903S01	RES,CF.103-J-1/10-CP
R549	06E21164S01	RES,CF.152-J-1/10-CP
R550	06E21164S01	RES,CF.152-J-1/10-CP
R551	06E21164S01	RES,CF.152-J-1/10-CP
R552	06E21164S01	RES,CF.152-J-1/10-CP
R553	06E22924S01	RES,CF.242-J-1/10-CP
R554	06E22924S01	RES,CF.242-J-1/10-CP
R555	06E22924S01	RES,CF.242-J-1/10-CP
R556	06E22924S01	RES,CF.242-J-1/10-CP
R557	06E20903S01	RES,CF.103-J-1/10-CP
R558	06E20903S01	RES,CF.103-J-1/10-CP
R559	06E20903S01	RES,CF.103-J-1/10-CP
R560	06E20903S01	RES,CF.103-J-1/10-CP
R601	06E22146S01	RES,MO 1W1SJ 111E-RD
R602	06E22146S01	RES,MO 1W1SJ 111E-RD
R603	06E20752S01	RES,CF. 221-J-1/4-CP
R604	06E22548S01	RES,CF. 471-J-1/4-CP

Symbol No.	Part No.	Description
R605	06E22548S01	RES,CF. 471-J-1/4-CP
R606	06E20752S01	RES,CF. 221-J-1/4-CP
R607	06E20752S01	RES,CF. 221-J-1/4-CP
R608	06E22548S01	RES,CF. 471-J-1/4-CP
R609	06E22548S01	RES,CF. 471-J-1/4-CP
R610	06E20752S01	RES,CF. 221-J-1/4-CP
R611	06E20752S01	RES,CF. 221-J-1/4-CP
R612	06E22548S01	RES,CF. 471-J-1/4-CP
R613	06E22548S01	RES,CF. 471-J-1/4-CP
R614	06E20752S01	RES,CF. 221-J-1/4-CP
R615	06E20907S01	RES,MO 1W1SJ 100E-RD
R616	06E20907S01	RES,MO 1W1SJ 100E-RD
R617	06E20204S01	RES,CF. 332-J-1/8-AX
R618	06E20204S01	RES,CF. 332-J-1/8-AX
R619	06E30146S01	RES,CF. 622-J-1/4-AX
R620	06E30146S01	RES,CF. 622-J-1/4-AX
R621	06E32083S01	RES,MO 1W1SJ 362E-RD
R622	06E32083S01	RES,MO 1W1SJ 362E-RD
R624	06E32087S01	RES,CF.510K-1/4WJ-AX
R634	06E22074S01	RES,CF. 102-J-1/4-CP
R701	06E28518S01	RES,CF. 432-J-1/4-CP
R702	06E23857S01	RES,CF.551-J-1/10-CP
R703	06E22055S01	RES,CF.472-J-1/10-CP
R704	06E32088S01	RES,MO.912-J-1/2W-AX
R705	06E22924S01	RES,CF.242-J-1/10-CP
R706	06E22112S01	RES,CF.113-J-1/10-CP
R707	06E22065S01	RES,CF.104-J-1/10-CP
R708	06E24358S01	RES,CF.623-J-1/10-CP
R709	06E20903S01	RES,CF.103-J-1/10-CP
R710	06E22059S01	RES,CF.183-J-1/10-CP
R711	06E22040S01	RES,CF.10R-J-1/10-CP
R712	06E22048S01	RES,CF.102-J-1/10-CP
R713	06E22056S01	RES,CF.682-J-1/10-CP
R714	06E22048S01	RES,CF.102-J-1/10-CP
R715	06E22048S01	RES,CF.102-J-1/10-CP
R716	06E22065S01	RES,CF.104-J-1/10-CP
R717	06E20903S01	RES,CF.103-J-1/10-CP
R718	06E20905S01	RES,CF.0R0-J-1/10-CP
R720	06E22953S01	RES,CF.303-J-1/10-CP
R729	06E20903S01	RES,CF.103-J-1/10-CP
R801	06E22048S01	RES,CF.102-J-1/10-CP
R802	06E22048S01	RES,CF.102-J-1/10-CP
R803	06E22048S01	RES,CF.102-J-1/10-CP
R804	06E20903S01	RES,CF.103-J-1/10-CP
R805	06E27611S01	RES,CF.753-J-1/10-CP
R806	06E22064S01	RES,CF.683-J-1/10-CP
R807	06E20903S01	RES,CF.103-J-1/10-CP
R808	06E22048S01	RES,CF.102-J-1/10-CP
R809	06E22048S01	RES,CF.102-J-1/10-CP

Symbol No.	Part No.	Description
R810	06E22048S01	RES, CF. 102-J-1/10-CP
R813	06E20903S01	RES, CF. 103-J-1/10-CP
R814	06E20903S01	RES, CF. 103-J-1/10-CP
R815	06E22048S01	RES, CF. 102-J-1/10-CP
R816	06E20903S01	RES, CF. 103-J-1/10-CP
R818	06E22048S01	RES, CF. 102-J-1/10-CP
R821	06E22048S01	RES, CF. 102-J-1/10-CP
R822	06E22048S01	RES, CF. 102-J-1/10-CP
R825	06E22053S01	RES, CF. 332-J-1/10-CP
R826	06E22030S01	RES, CF. 102-J-1/8-CP
R827	06E22053S01	RES, CF. 332-J-1/10-CP
R828	06E22030S01	RES, CF. 102-J-1/8-CP
R829	06E22060S01	RES, CF. 223-J-1/10-CP
R830	06E22065S01	RES, CF. 104-J-1/10-CP
R831	06E22036S01	RES, CF. 223-J-1/8-CP
R832	06E20903S01	RES, CF. 103-J-1/10-CP
R833	06E20903S01	RES, CF. 103-J-1/10-CP
R834	06E22055S01	RES, CF. 472-J-1/10-CP
R835	06E22111S01	RES, CF. 562-J-1/10-CP
R836	06E22508S01	RES, CF. 203-J-1/10-CP
R837	06E24356S01	RES, CF. 181-J-1/10-CP
R838	06E22060S01	RES, CF. 223-J-1/10-CP
R839	06E20903S01	RES, CF. 103-J-1/10-CP
R840	06E20903S01	RES, CF. 103-J-1/10-CP
R841	06E23692S01	RES, CF. 514-J-1/10-CP
R842	06E23743S01	RES, CF. 244-J-1/10-CP
R843	06E20903S01	RES, CF. 103-J-1/10-CP
R844	06E20903S01	RES, CF. 103-J-1/10-CP
R845	06E20903S01	RES, CF. 103-J-1/10-CP
R846	06E20903S01	RES, CF. 103-J-1/10-CP
R847	06E20903S01	RES, CF. 103-J-1/10-CP
R848	06E20903S01	RES, CF. 103-J-1/10-CP
R849	06E20903S01	RES, CF. 103-J-1/10-CP
R850	06E20903S01	RES, CF. 103-J-1/10-CP
R851	06E22067S01	RES, CF. 474-J-1/10-CP
R852	06E22067S01	RES, CF. 474-J-1/10-CP
R853	06E22068S01	RES, CF. 105-J-1/10-CP
R854	06E20903S01	RES, CF. 103-J-1/10-CP
R855	06E20903S01	RES, CF. 103-J-1/10-CP
R857	06E22067S01	RES, CF. 474-J-1/10-CP
R858	06E22067S01	RES, CF. 474-J-1/10-CP
R859	06E22545S01	RES, CF. 202-J-1/10-CP
R901	06E22062S01	RES, CF. 473-J-1/10-CP
R902	06E22062S01	RES, CF. 473-J-1/10-CP
R903	06E20903S01	RES, CF. 103-J-1/10-CP
R904	06E22053S01	RES, CF. 332-J-1/10-CP
R905	06E22509S01	RES, CF. 154-J-1/10-CP
R906	06E22506S01	RES, CF. 362-J-1/10-CP
R907	06E23694S01	RES, CF. 272-J-1/4-CP

Symbol No.	Part No.	Description
R909	06E22058S01	RES, CF. 123-J-1/10-CP
R910	06E22065S01	RES, CF. 104-J-1/10-CP
R911	06E22033S01	RES, CF. 472-J-1/8-CP
R912	06E22065S01	RES, CF. 104-J-1/10-CP
R913	06E22545S01	RES, CF. 202-J-1/10-CP
R914	06E22065S01	RES, CF. 104-J-1/10-CP
R915	06E22547S01	RES, CF. 684-J-1/10-CP
R916	06E22545S01	RES, CF. 202-J-1/10-CP
R917	06E22068S01	RES, CF. 105-J-1/10-CP
R918	06E22043S01	RES, CF. 331-J-1/10-CP
VR401	18E25512S01	VR, EVNDJAA03B1. 5K-RD
VR402	18E25512S01	VR, EVNDJAA03B1. 5K-RD
VR403	18E25512S01	VR, EVNDJAA03B1. 5K-RD
VR404	18E25512S01	VR, EVNDJAA03B1. 5K-RD
VR701	18E20754S01	VR, EVNDJAA03 B10K-RD

Connectors

CB101	01E32079S01	ASS'Y CONN 4P
CB103	01E32079S01	ASS'Y CONN 4P
CB201	01E32077S01	ASS'Y CONN 7P
CB203	01E32078S01	ASS'Y CONN 6P
CB205	01E32077S01	ASS'Y CONN 7P
CB207	01E32078S01	ASS'Y CONN 6P
CB801	09E29461S01	CONN BASE, 53014-0710

Volume(1) P.W.Board

Resistors

VR101	18E29471S01	VR, 50KAX2(GAIN)
VR201	18E29534S01	VR, 50KEX2, 20KEX2(HP)
VR203	18E29472S01	VR, 50KEX4(LP)

Connectors

CB102	09E29477S01	CONN BASE, 53015-0410
CB202	09E29479S01	CONN BASE, 53015-0710
CB204	09E29478S01	CONN BASE, 53015-0610

Symbol No.	Part No.	Description
Volume(2) P.W.Board		
Resistors		
VR102	18E29471S01	VR, 50KAX2(GAIN)
VR202	18E29534S01	VR, 50KEX2, 20KEX2(HP)
VR204	18E29472S01	VR, 50KEX4(LP)
Connectors		
CB104	09E29477S01	CONN BASE, 53015-0410
CB206	09E29479S01	CONN BASE, 53015-0710
CB208	09E29478S01	CONN BASE, 53015-0610
LED P.W.Board		
LED's		
LED801	48T45416Y01	LED, B/R FRDB3312X-DB
LED802	48T45416Y01	LED, B/R FRDB3312X-DB
LED803	48T45416Y01	LED, B/R FRDB3312X-DB
Capacitors		
C801	08E22510S01	CAP, CER. 181-J-CP 50V
C802	08E22510S01	CAP, CER. 181-J-CP 50V
C803	08E22510S01	CAP, CER. 181-J-CP 50V
Connector		
CB802	01E32076S01	7P CONNECTOR ASS'Y
Miscellaneous		
BKT401	09E29255S01	BLOCK TERMINAL 8P
BKT901	29T25237Y01	TERMINAL, T6987-A-DB
F901	65E32075S01	FUSE AUTO 40A(For Battery Line)
RCA101	09T15353Y02	RCA, T6786-AA(PRE OUT)
RCA102	09T15354Y03	RCA, T6764-BGBB(INPUT)

Symbol No.	Part No.	Description

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Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
4		15E31215S01	COVER, BOTTOM
5		14E32093S01	INSULATOR LED
6		03E09416S09	SCR M3X10(P)TPG-TPT(BLK)
7		03E09416S10	SCR M3X8(P)TPG-TPT(BLK)
8		03E24424S01	SCR M2.6X5(B)TPG-TPT(YEL)
9		03E29555S01	SCR M3X8(P) MCH(BLK)
10		03E09417S05	SCR M2.6X5(B)MCH-TPT(BLK)
11		03E09417S06	SCR M3X11(B)TPG-TPT(YEL)
12		03E09417S08	SCR M3X5(B)TPG-TPT(BLK)
13		03E20920S01	SCR M3X5(B)TPG-TPT(WHT)
14		03E30219S01	SCR M3X16(B)TPG-TPT(YEL)
15		02E29524S01	WRENCH BOLT
16		03E20922S01	SCR M3X11(S.W)TPG-TPT(YEL)
17		15E11445S01	COVER, S/W
18		64E29528S01	BADGE V12(EXPERT)
19		64E32094S01	COVER, PLATE
21		61E32095S01	LENS, LED
25		07E32096S01	BKT, TR
26		07E31060S01	STUD, SUPPORT
27		26E29658S01	SHEET, SCALE PLATE
28		34A41528Y01	SCALE PLATE
29		15E32097S01	HOLDER, LED
30		03E29348S01	SCR M3X8(B)TPG-TPT(YEL)
32		09T95463W01	HOLDER, FUSE H0464
33		14E20977S01	INSULATOR, SHEET-A
34		64E32070S01	PLATE JUMP(D)
35		64E32071S01	PLATE, JUMP
38		07E32081S01	BKT, VR

Symbol No.	Index	Part No.	Description